CYBER-RAIN

USER MANUAL

Congratulations on your purchase of the Cyber-Rain XCI Smart Sprinkler Controller System

CYBER-RAIN XCI Smart Wireless Sprinkler Controller
Sun 10/21/07 3:30:19 Pm
2:Rose Bushes ON 00:14
1 2 3 4 5 6 7 8
C 1 2 3 4 5 6 7 8
CYBER-RAIN™

If you are experiencing difficulties with your Cyber-Rain System, please contact our Technical Support Department

Telephone: (877) 888-1452

Email: support@cyber-rain.com

Table of Contents

Package Contents 3

Installation 3

Pre-Installation Checklist 3

Installation Steps 4

Manual Operation from the Controller Unit 6

Entering Your Schedule 21

Basic Operation 25

Manual Control 30

Advanced Features 33

Calendar View 34

Details 35

Watering Index 36

Advanced Settings 37

Statistics 38

Setup Wizard 40

Troubleshooting Guide 41

Trouble Running the Software Installer 43

Connectivity Issues 43

Access Point Plugged in BEFORE Installing the Software 44

Error Messages 45

Controller Not Recognized on New Computer or New Hard Drive 45

Software Upgrade 45

Cyber-Rain XCI Installation and Operation Manual

Software Version 2.55

Thank you for purchasing the Cyber-Rain XCI, the smart sprinkler controller that saves you time, money, and helps the environment.

Package Contents

A. Cyber-Rain XCI 8-Zone Sprinkler Controller
B. Power Supply for the Sprinkler Controller
C. USB Cable
D. USB Wireless Access Point Module
E. Software Installation/User's Manual CD
F. Mounting Hardware
G. Documentation (Quick Setup Guide, Serial Number, Mounting Template)

Installation

Pre-Installation Checklist

The following hardware and software is required for the Cyber-Rain XCI controller and software installation:

- ✓ A PC running Windows Vista or Windows XP (with Service Pack 2 or later).
- ✓ An unused USB Port. If you do not have a free USB port, your local electronics store sells ***powered*** USB hubs that provide additional USB ports.
- ✓ 100MB free disk space on your PC.
- ✓ Broadband Internet access (DSL, cable modem, etc.). Please make sure your Internet connection is available at the time of initial installation. If you have a dialup connection, it should be active at the time of installation.

Now is a good time to make a note of your Cyber-Rain XCI controller serial number (14-digit number located on the back of the controller):

My Cyber-Rain XCI Serial Number: _____

1. Mount the Controller.

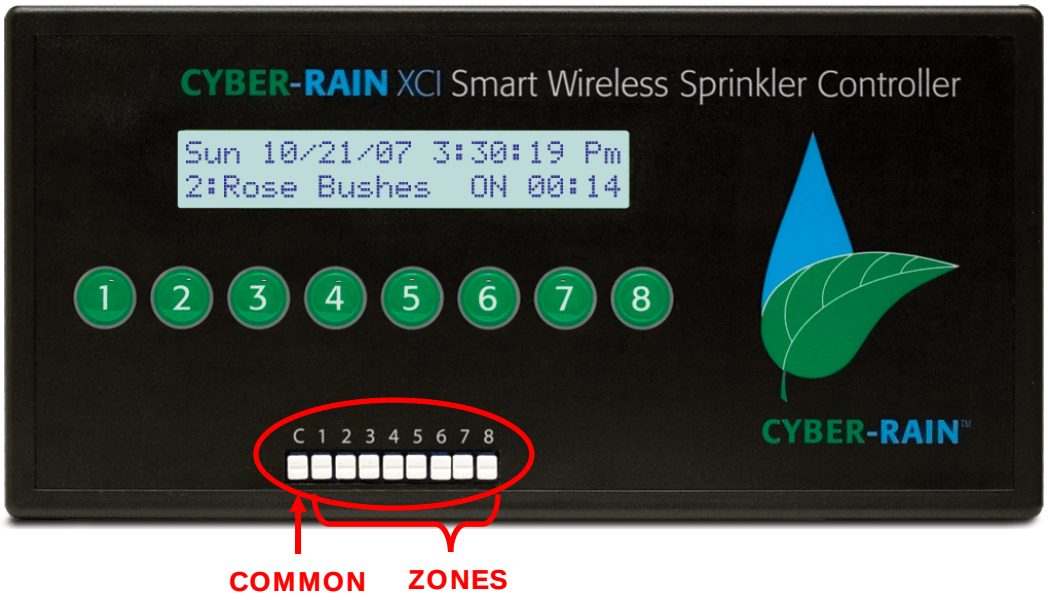
Mount the controller on the wall with two #8 screws (included) mounted 6" apart (using the included template). For outdoor applications, mount the controller in a plastic weatherproof box (available from most Cyber-Rain authorized resellers or directly from www.cyber-rain.com).

2. Install the Controller

Note: If your irrigation system uses a master valve or pump (usually to draw water from a source such as a well) you will also need to use the master valve lead marked "M". The Cyber-Rain controller will provide constant power to the pump / master valve in order to enable watering. If you do not have a master valve or pump installed, you will not need this feature.

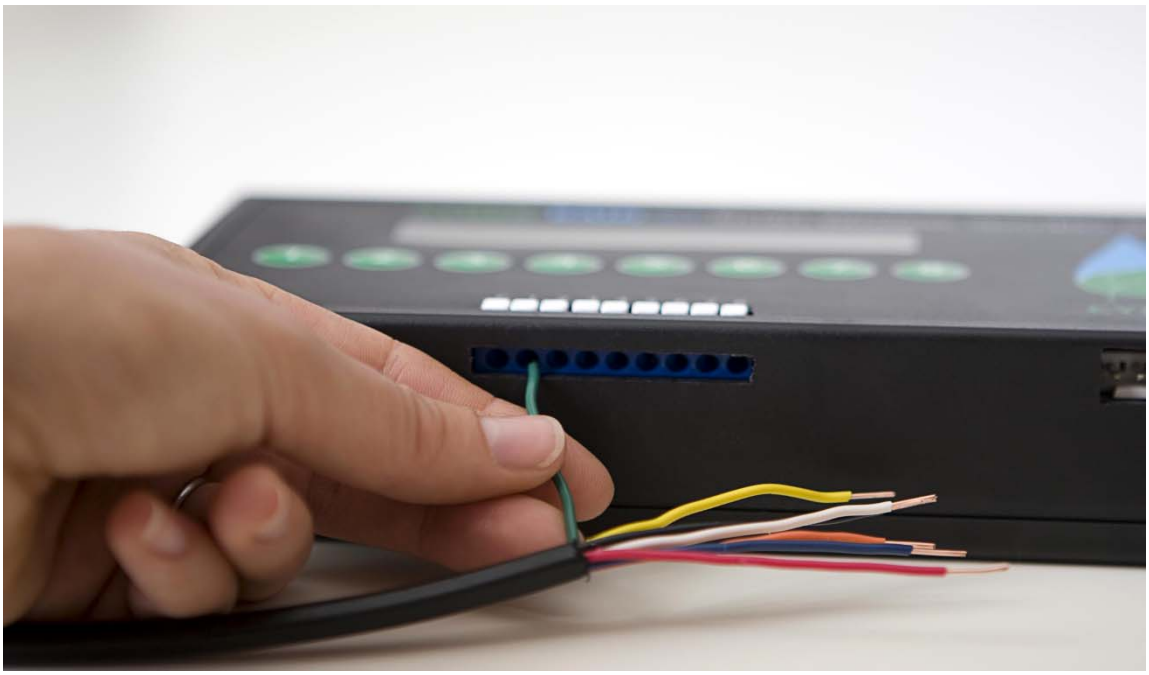
The controller needs to be connected to your sprinkler valves. If you have an existing sprinkler controller, the sprinkler valves are connected to the controller with the wires typically inserted into numbered slots, which are called zones. Often these wires are in multiple colors. Before disconnecting an existing controller, make note of which wire runs to each sprinkler valve and mark them accordingly.

There should be a single wire for each zone plus a "common" wire. The common wire is generally the white wire. (If you are replacing an existing sprinkler controller note the wire marked "common").


CYBER-RAIN XCI Smart Wireless Sprinkler Controller
Sun 10/21/07 3:30:19 Pm
2:Rose Bushes ON 00:14
1 2 3 4 5 6 7 8
C 1 2 3 4 5 6 7 8
CYBER-RAIN™
COMMON
ZONES

Connect the "common" wire to the "C" connector on the Cyber-Rain controller. Wires are connected by pushing the corresponding white button on the front of the Cyber-Rain controller with a pen or screwdriver while simultaneously inserting the wire into the corresponding socket from the bottom of the controller. Release the white button when the wire is in place.

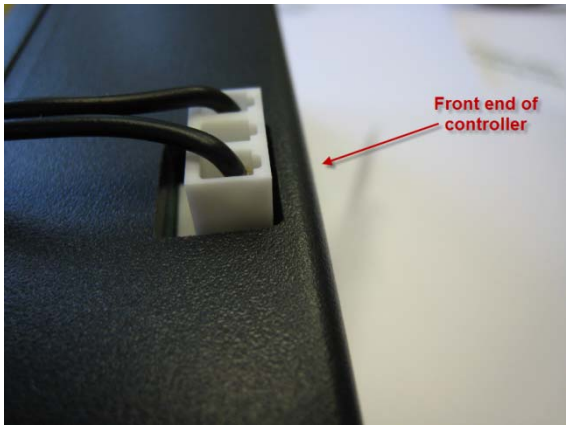
Next, connect the sprinkler valve wires for each zone to the slots numbered 1-8 on the controller, noting a description of each zone and the slot that you are connecting it to below. If your sprinkler system has fewer than 8 zones, start with zone 1 and continue until finished. All 8 zones do not need to be activated. If you have more than 8 zones, you will need an additional controller (see page 41).



Slot	Wire Color	Zone Description
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____
6	_____	_____
7	_____	_____
8	_____	_____

*Please note: Cyber-Rain XCI is designed to be installed indoors (e.g., your garage, laundry room, other indoor access area). If you wish to install the unit outdoors, please order an outdoor box from Cyber-Rain or otherwise install the unit in a weatherproof box that is not made from metal.

Next, connect the white end of the AC adapter plug to the bottom of the controller making sure that is tight and secure. Note: **the AC adapter plug can only be inserted one way** (see pictures below) and will snap securely into place when installed correctly. Next, connect the wall transformer to a 120VAC wall outlet.



Your Cyber-Rain XCI controller can manually activate individual zones directly from the controller unit. **After all zone wires have been installed, you may want to use this feature to check that all zones are working properly.** To manually activate zones, press the numbered button that corresponds to the zone which you would like to activate. Each press of the button activates a zone for 30 seconds. Pressing the same button additional times in rapid succession lengthens the duration of watering for that zone in 30-second increments. To shut off the zone, wait **3 or more seconds** and press the button for that zone once.

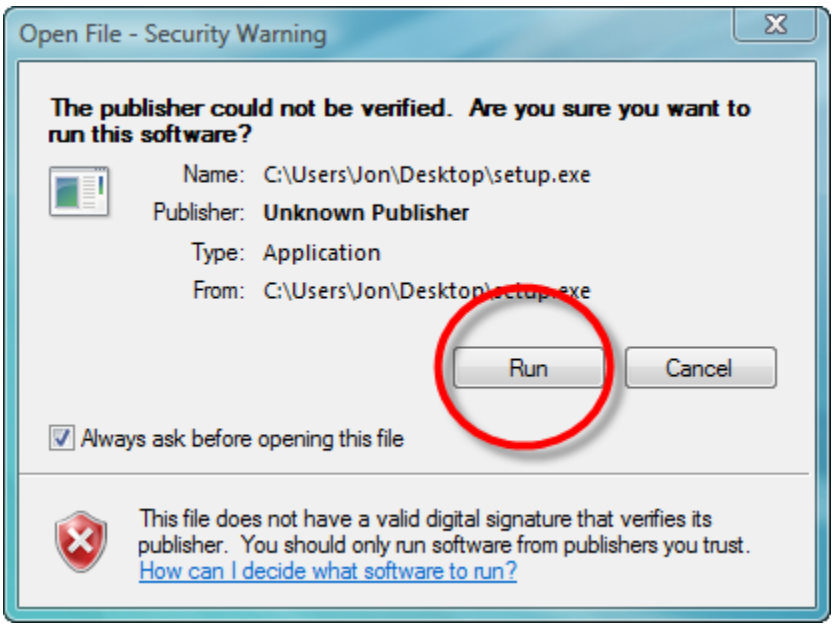
3. Install the PC Software

IMPORTANT NOTE:

DO NOT connect the USB Access Point to your PC until AFTER the Cyber-Rain software has been installed.

Insert the Cyber-Rain Installation CD into the CD drive on your computer and double click on the Cyber-Rain Installation program (Cyber-Rain.msi or Setup.exe). The following pictures depict the installation procedure.

A Windows Security Warning screen may open. If so, click “Run”.


Open File - Security Warning
The publisher could not be verified. Are you sure you want to run this software?
Name: C:\Users\Jon\Desktop\setup.exe
Publisher: Unknown Publisher
Type: Application
From: C:\Users\Jon\Desktop\setup.exe
Run
Cancel
Always ask before opening this file
This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust.
How can I decide what software to run?

The “Preparing to Install” screen opens.

InstallShield Wizard
Preparing to Install...
Cyber-Rain 2.55 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Extracting: Cyber-Rain 2.55.msi
Cancel

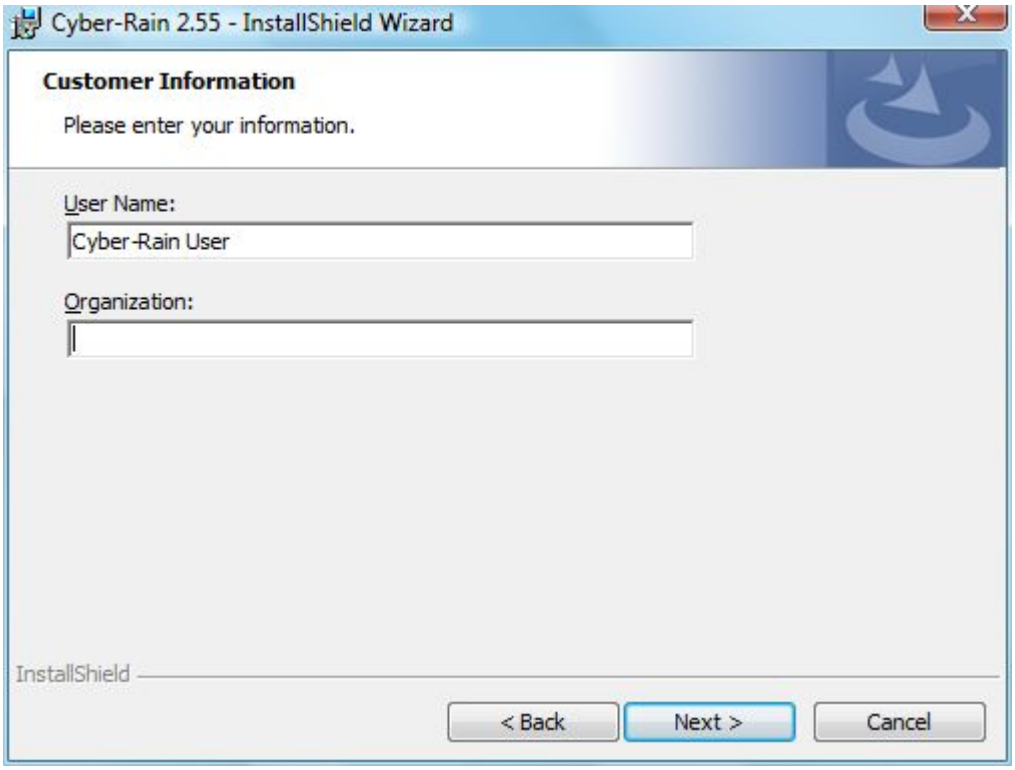
The “Welcome to the InstallShield Wizard for Cyber-Rain 2.55” screen opens. Click “Next”.

Cyber-Rain 2.55 - InstallShield Wizard
Welcome to the InstallShield Wizard for Cyber-Rain 2.55
The InstallShield(R) Wizard will install Cyber-Rain 2.55 on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

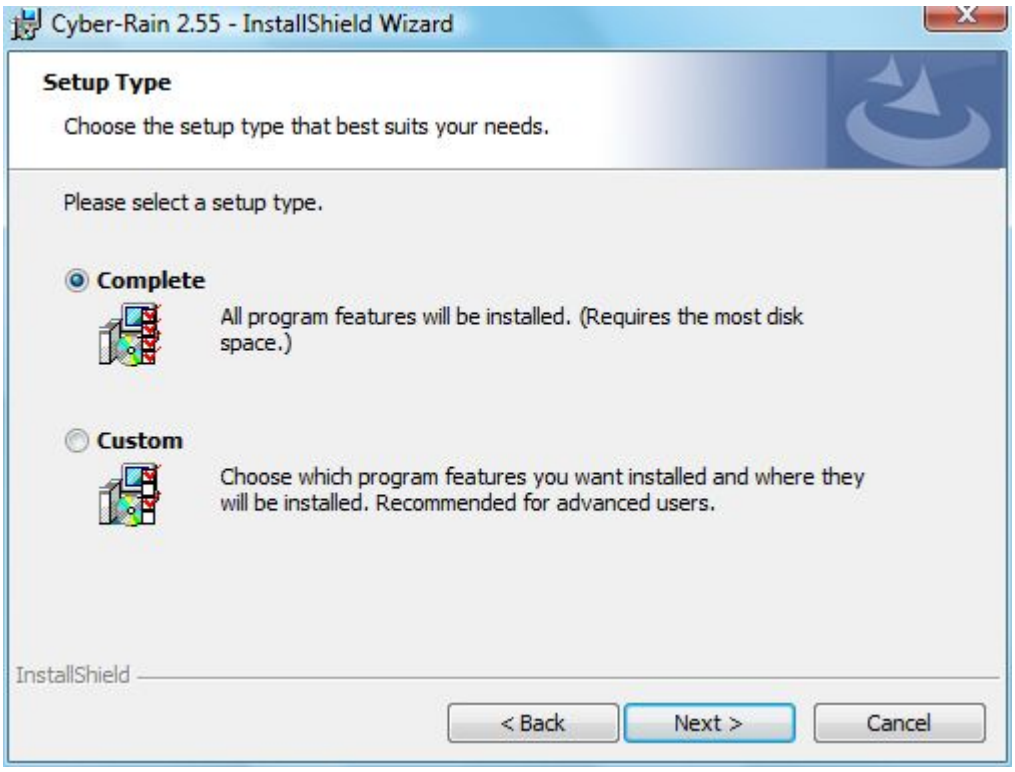
Please review and accept the Cyber-Rain End User Software License Agreement. Select “I accept the terms in the license agreement” by clicking on the selection radio button. Click “Next >”.

Cyber-Rain 2.55 - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Cyber-Rain™ End User Software License Agreement
This End User Software License Agreement (this “License”) contains rights and restrictions associated with the usage of the software that you are installing (including all upgrades, modifications, and new versions thereto, collectively, the “Software”). Read the License carefully before using the Software. By using the Software, you acknowledge that you have read and understood, and agree to comply with, each and every
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

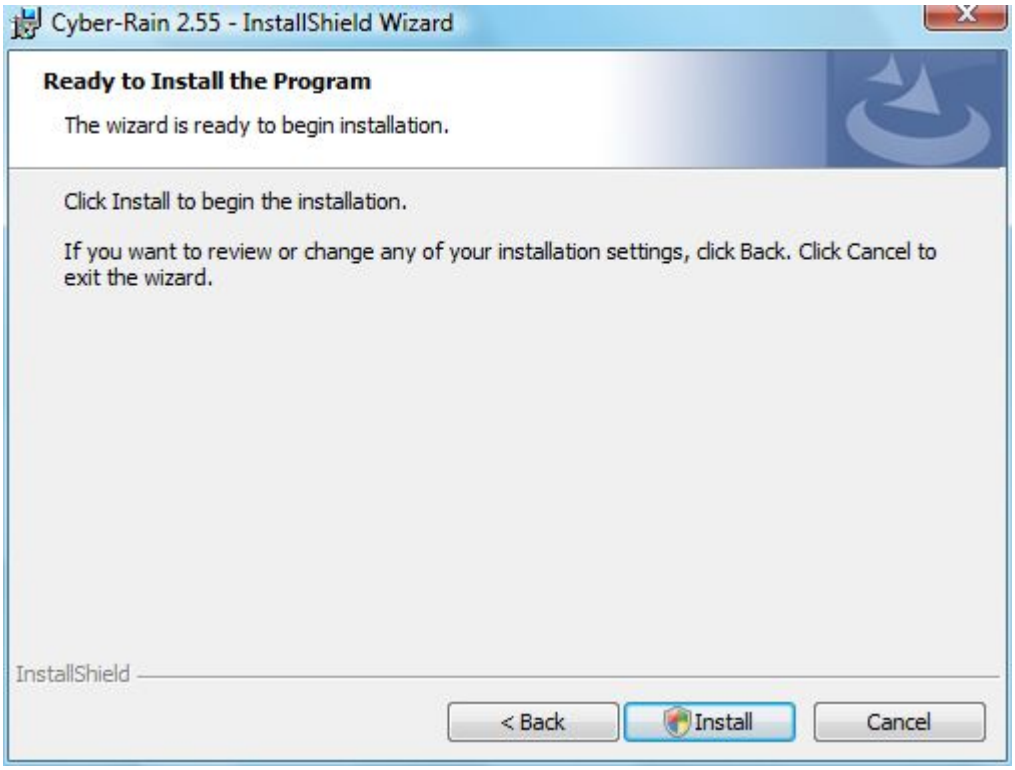
The “Customer Information” screen opens. Fill in your User Name and Organization (optional). Click “Next >”.



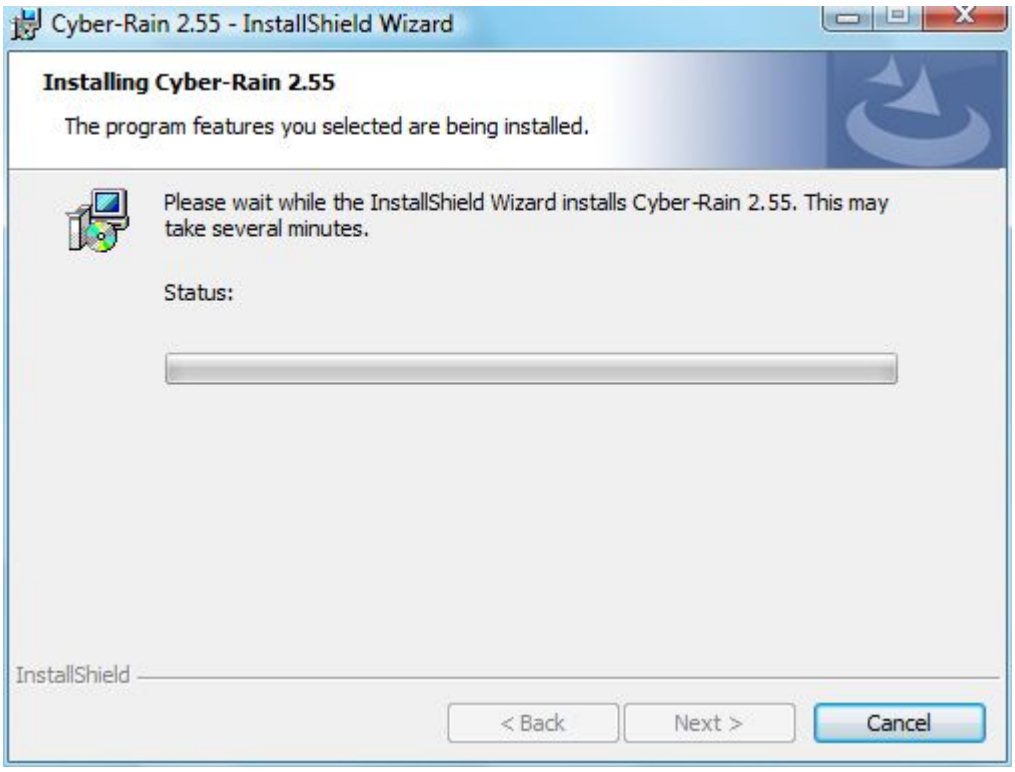
The “Setup Type” screen opens. Select “Complete” by clicking on the selection radio button. Click “Next >”.


Cyber-Rain 2.55 - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

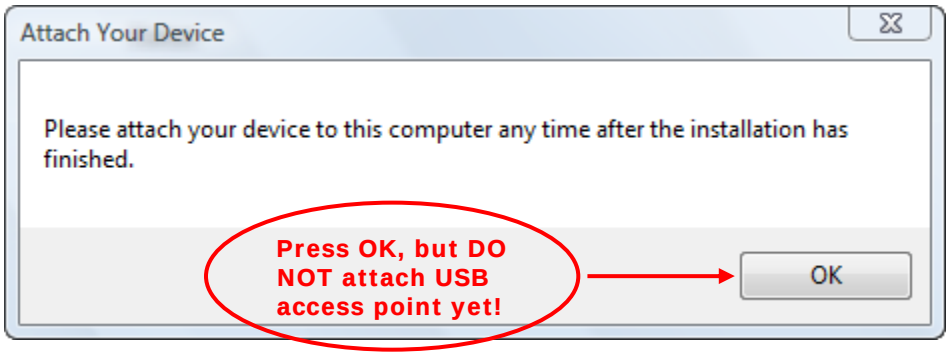
The “Ready to Install the Program” screen opens. Click “Install”.


Cyber-Rain 2.55 - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

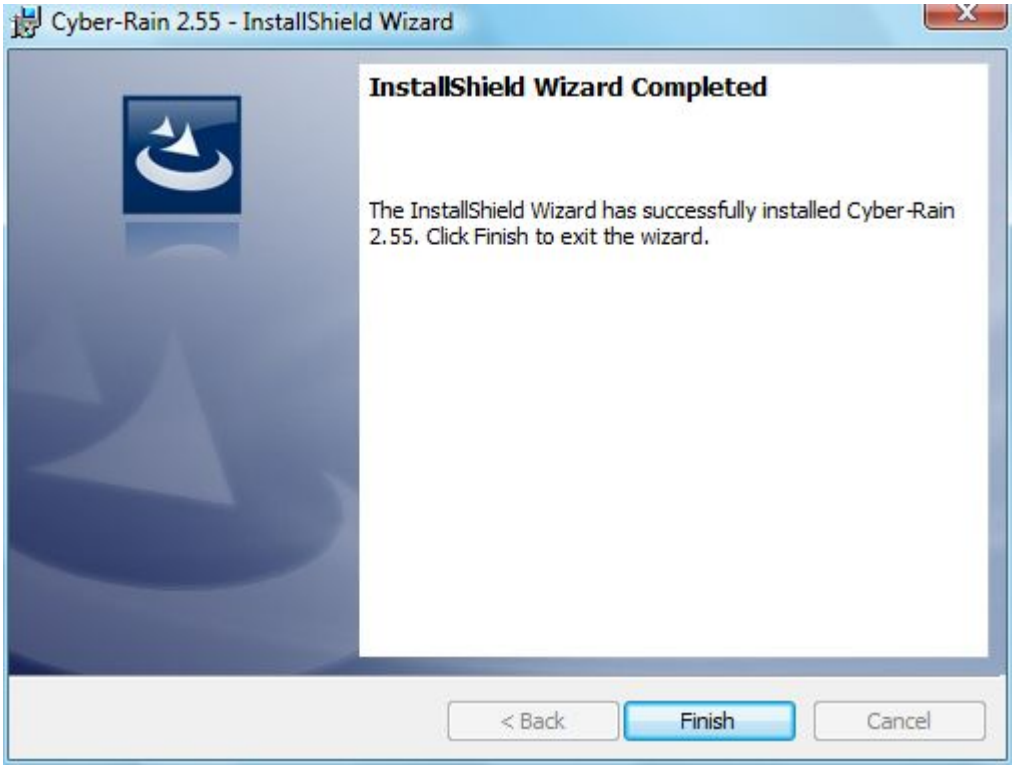
The “Installing Cyber-Rain 2.55” screen opens. Depending on your computer’s configuration, this process could take several minutes to complete.


Cyber-Rain 2.55 - InstallShield Wizard
Installing Cyber-Rain 2.55
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs Cyber-Rain 2.55. This may take several minutes.
Status:
InstallShield
< Back
Next >
Cancel

If you encounter the “Attach Your Device” window, click “OK”, but **DO NOT** connect your USB access point at this time (note that you are prompted to do so after the software installation has completed).


Attach Your Device
Please attach your device to this computer any time after the installation has finished.
Press OK, but DO NOT attach USB access point yet!
OK

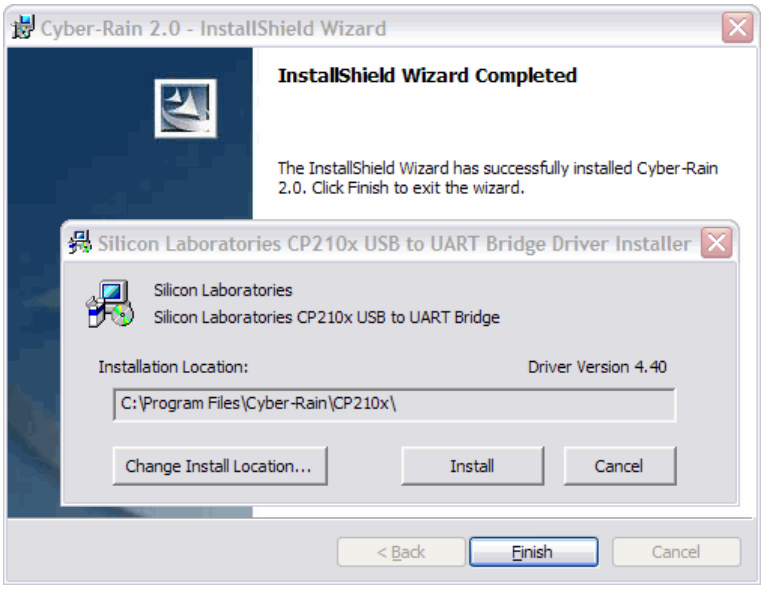
The “InstallShield Wizard Completed” screen opens. Click “Finish”.


Cyber-Rain 2.55 - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Cyber-Rain 2.55. Click Finish to exit the wizard.
< Back
Finish
Cancel

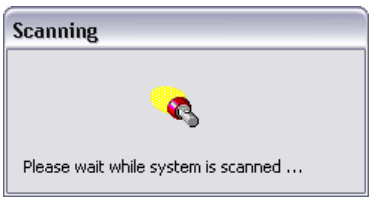
Depending on your computer’s configuration, you may or may not see the following screens.

If the following screens appear:

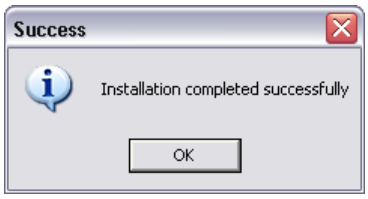
Click “Install”. Otherwise, skip to page 15 and continue the installation procedure.



The “Scanning” screen opens. This may take several minutes depending on your computer’s configuration.



The “Installation Completed Successfully” screen opens. Click “OK”.

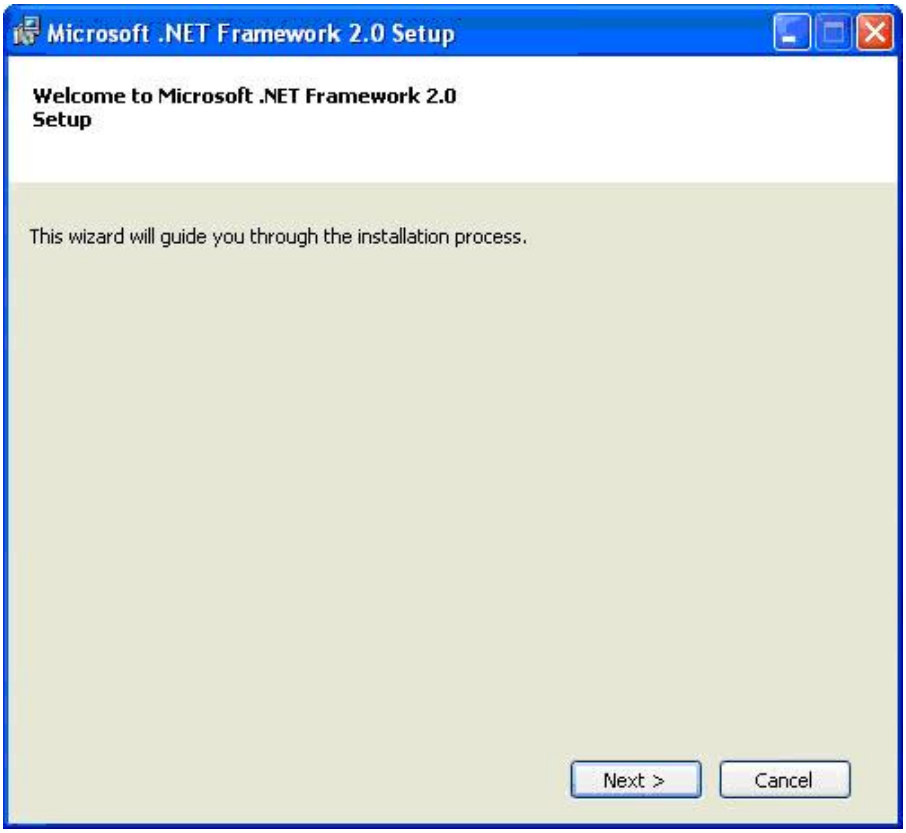


The “InstallShield Wizard Completed” screen opens. Click “Finish”.

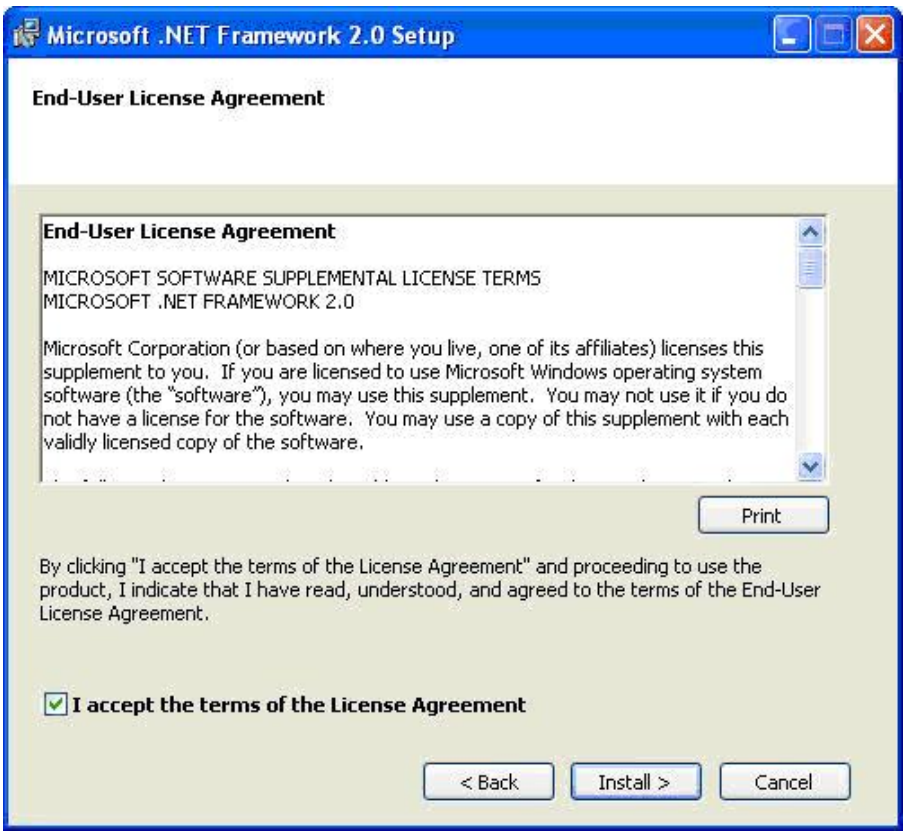
Cyber-Rain - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Cyber-Rain. Click Finish to exit the wizard.
< Back
Finish
Cancel

If you are running Windows XP and do not yet have Microsoft .NET Framework 2.0 installed, you may see the following additional screens:

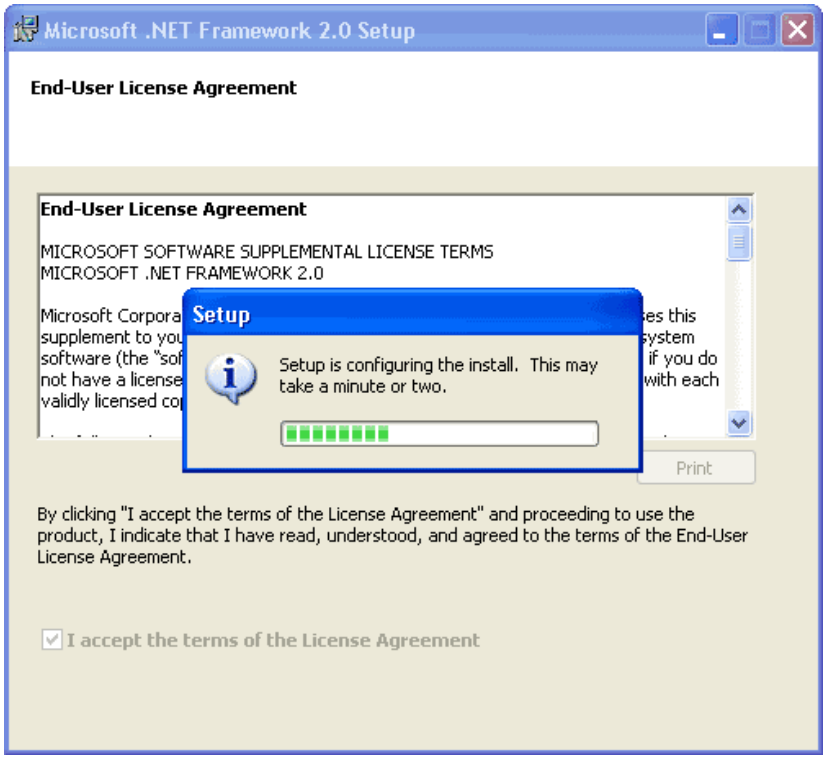
The “Microsoft .NET Framework 2.0 Setup” window opens. Click “Next”.

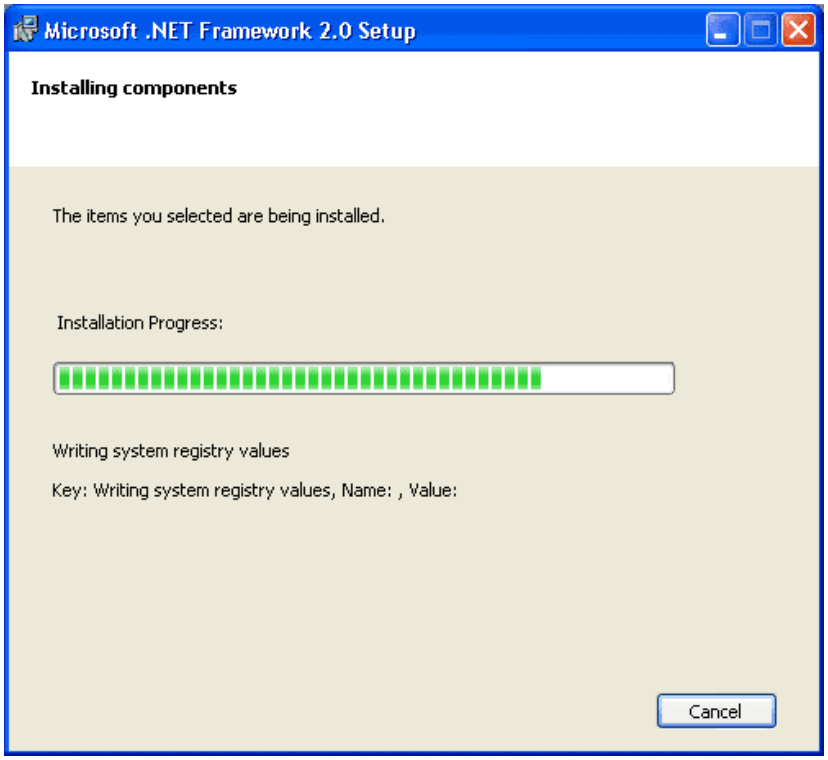

Microsoft .NET Framework 2.0 Setup
Welcome to Microsoft .NET Framework 2.0 Setup
This wizard will guide you through the installation process.
Next >
Cancel

The “Microsoft .NET Framework 2.0 Setup” window opens. Click the “I accept the terms of the License Agreement” box, and then click “Install”.

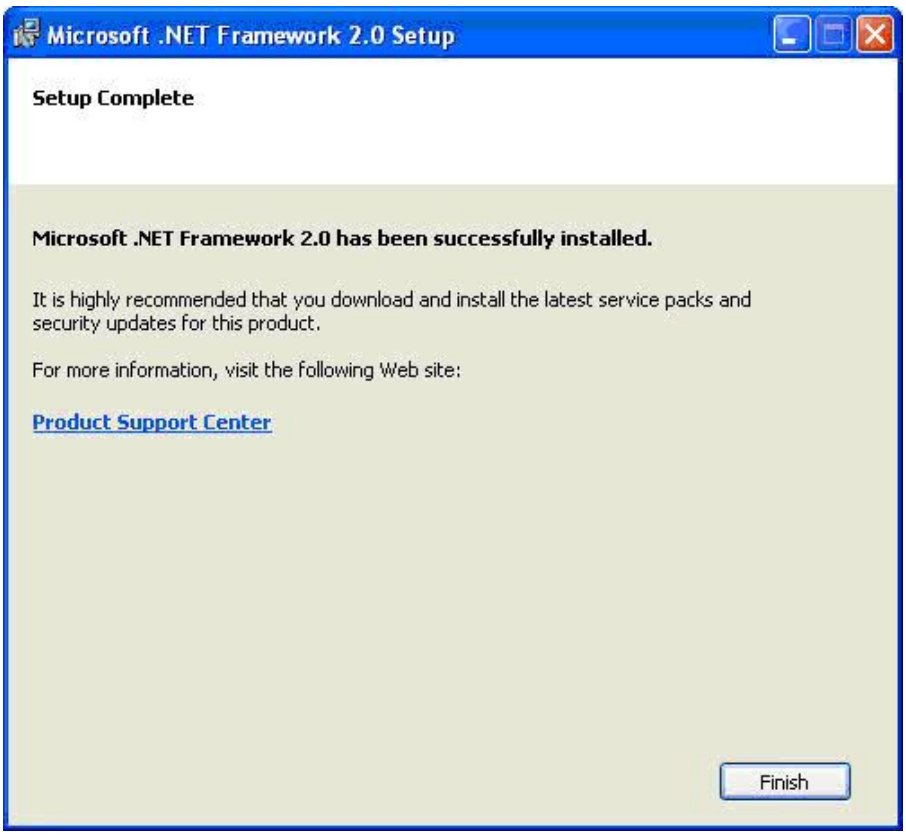

Microsoft .NET Framework 2.0 Setup
End-User License Agreement
End-User License Agreement
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS
MICROSOFT .NET FRAMEWORK 2.0
Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you do not have a license for the software. You may use a copy of this supplement with each validly licensed copy of the software.
Print
By clicking "I accept the terms of the License Agreement" and proceeding to use the product, I indicate that I have read, understood, and agreed to the terms of the End-User License Agreement.
I accept the terms of the License Agreement
< Back
Install >
Cancel

Depending on your computer’s configuration, the following process may take several minutes to complete.


Microsoft .NET Framework 2.0 Setup
End-User License Agreement
End-User License Agreement
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS
MICROSOFT .NET FRAMEWORK 2.0
Setup
Setup is configuring the install. This may take a minute or two.
Print
By clicking "I accept the terms of the License Agreement" and proceeding to use the product, I indicate that I have read, understood, and agreed to the terms of the End-User License Agreement.
I accept the terms of the License Agreement


Microsoft .NET Framework 2.0 Setup
Installing components
The items you selected are being installed.
Installation Progress:
Writing system registry values
Key: Writing system registry values, Name: , Value:
Cancel

Setup is complete. Click “Finish”.


Microsoft .NET Framework 2.0 Setup
Setup Complete
Microsoft .NET Framework 2.0 has been successfully installed.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, visit the following Web site:
Product Support Center
Finish

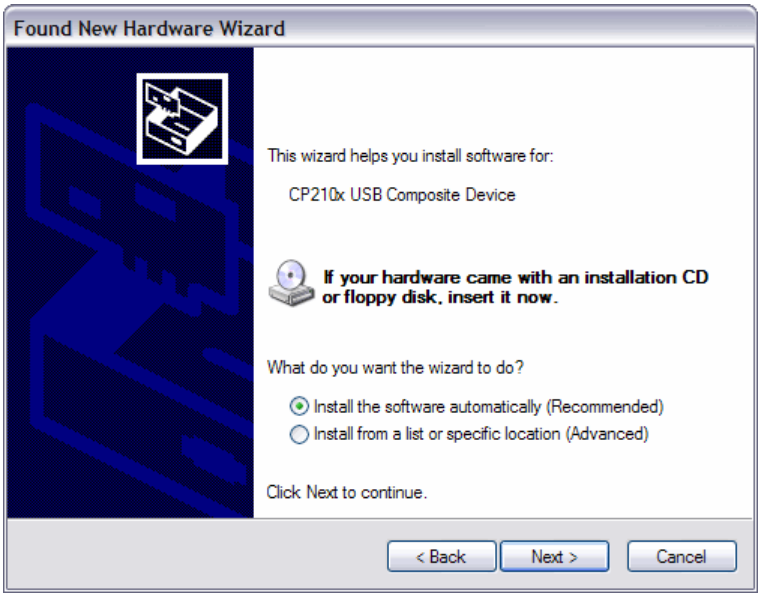
Now, connect one end of the USB cable to the Cyber-Rain Wireless USB link. (A picture or diagram would be helpful for that sentence.)

Connect the other end to a free USB port on your computer. The LED light on the USB Link should turn on and you should see a message on your Windows Desktop that a new device was found and that it is ready for use.

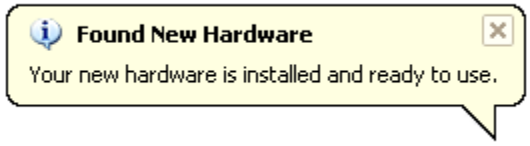
The “Welcome to the Found New Hardware Wizard” screen opens. Select “No, not this time”. Click “Next”.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

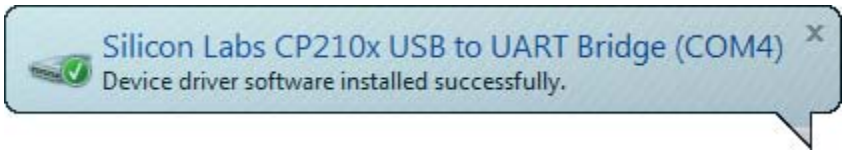
The “This Wizard helps you install software” screen opens. Select “Install the software automatically (recommended)”. Make sure the software installation CD is still in the CD drive of your computer. Click “Next”.


Found New Hardware Wizard
This wizard helps you install software for:
CP210x USB Composite Device
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

One of the following messages will appear on the status bar at the bottom of your monitor screen.



Or



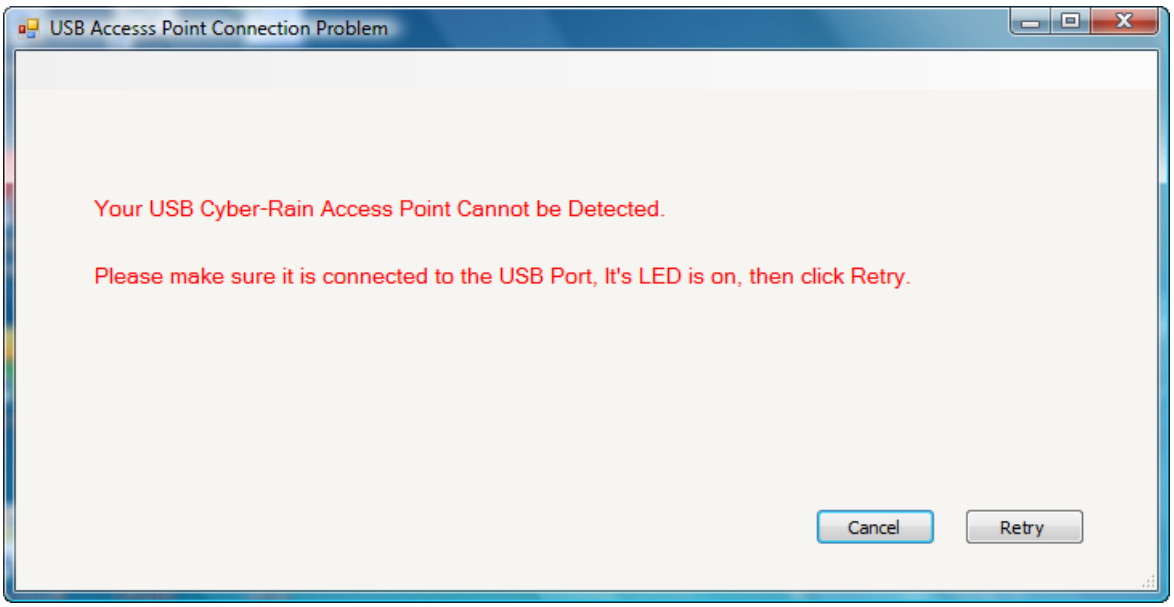
4. Run the Cyber-Rain Software.

Start the software by either clicking on the shortcut icon created by the installer on your desktop or running it from the program menu:

Cyber-Rain icon on the desktop

(Note: after initial installation & startup, Cyber-Rain automatically runs in the background and can be accessed through the taskbar on the bottom right corner of your windows explorer screen.)

The software first checks for the USB Access Point. If it is not connected, you will receive an error message.


USB Accesss Point Connection Problem
Your USB Cyber-Rain Access Point Cannot be Detected.
Please make sure it is connected to the USB Port, It's LED is on, then click Retry.
Cancel
Retry

If the USB Access Point is connected, the "Searching for Cyber-Rain Controllers" screen opens. The Access Point is sending a signal to find your controller. Once it has been found, the Cyber-Rain XCI set-up wizard will automatically launch.

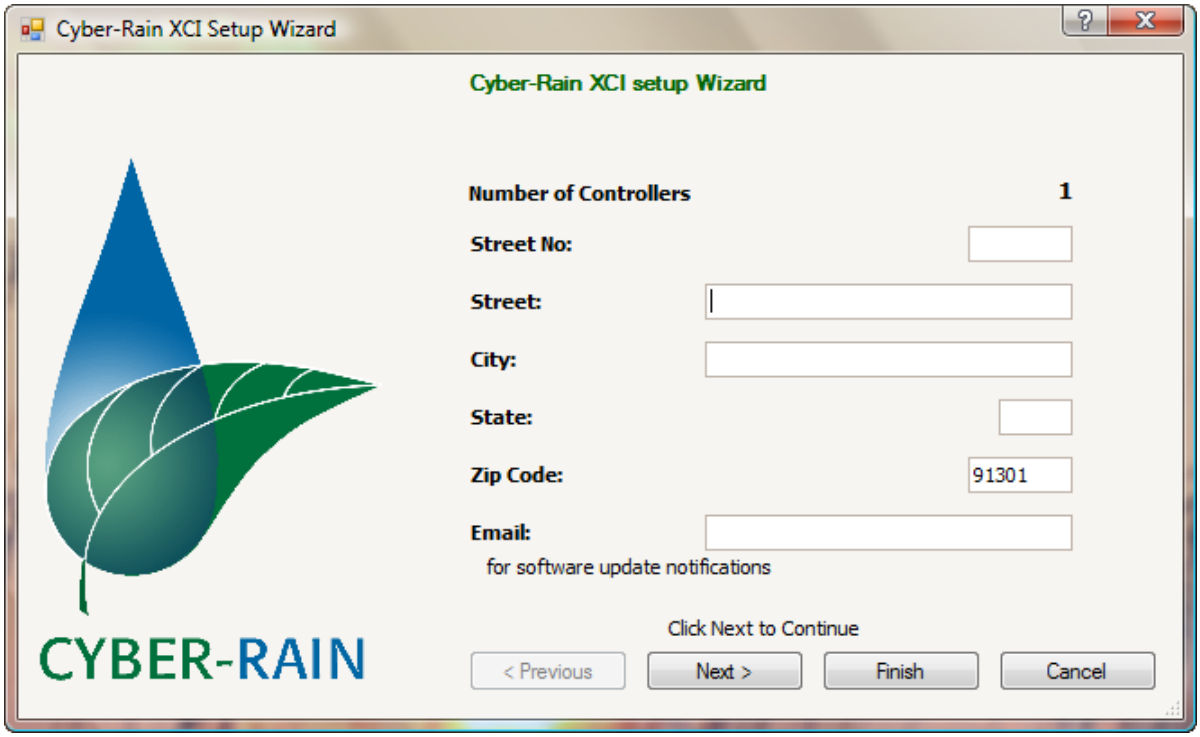
The “Welcome to the Cyber-Rain XCI Setup Wizard” screen opens.

Cyber-Rain XCI Setup Wizard
Welcome to the Cyber-Rain XCI set up Wizard
This Wizard will walk you through setting up your
Cyber-Rain XCI Sprinkler Controller System
Please make sure your Access Point is conneced to your USB port
and your Controller(s) are powered
Click Next to Proceed
CYBER-RAIN
< Previous
Next >
Finish
Cancel

Click “Next”.

Cyber-Rain then asks for your location so that it knows which weather information to use when controlling your sprinklers. Enter your address information, zip code and email. Your email address is needed to notify you of software updates. Cyber-Rain will never share your personal information with third parties without your express consent.

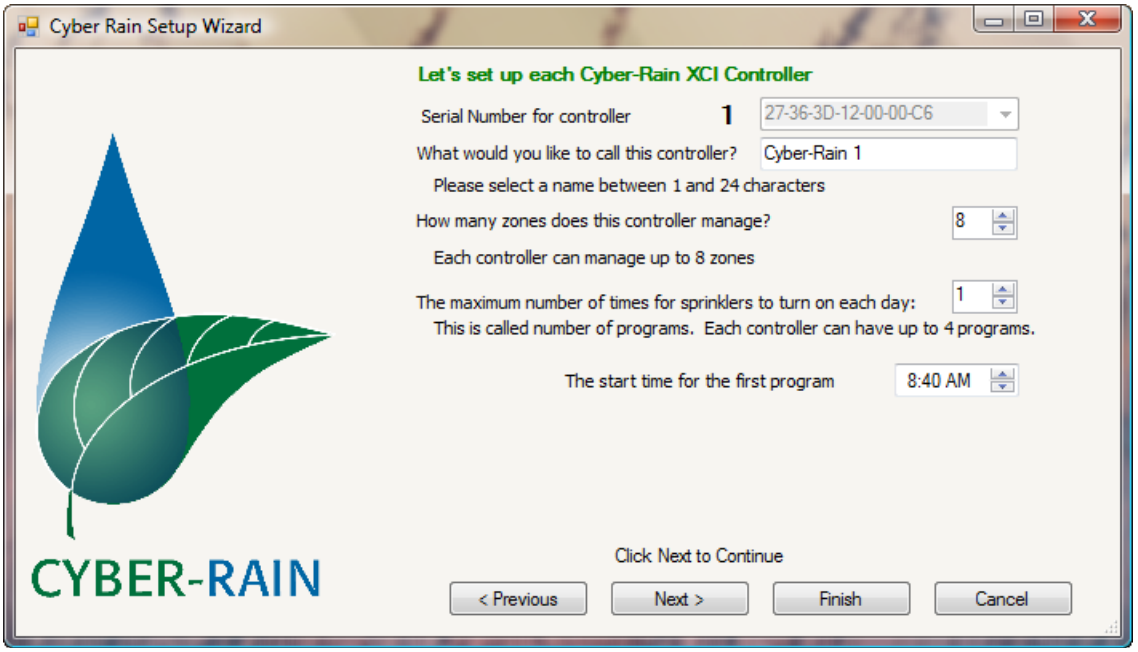
Click “Next” after entering your information.



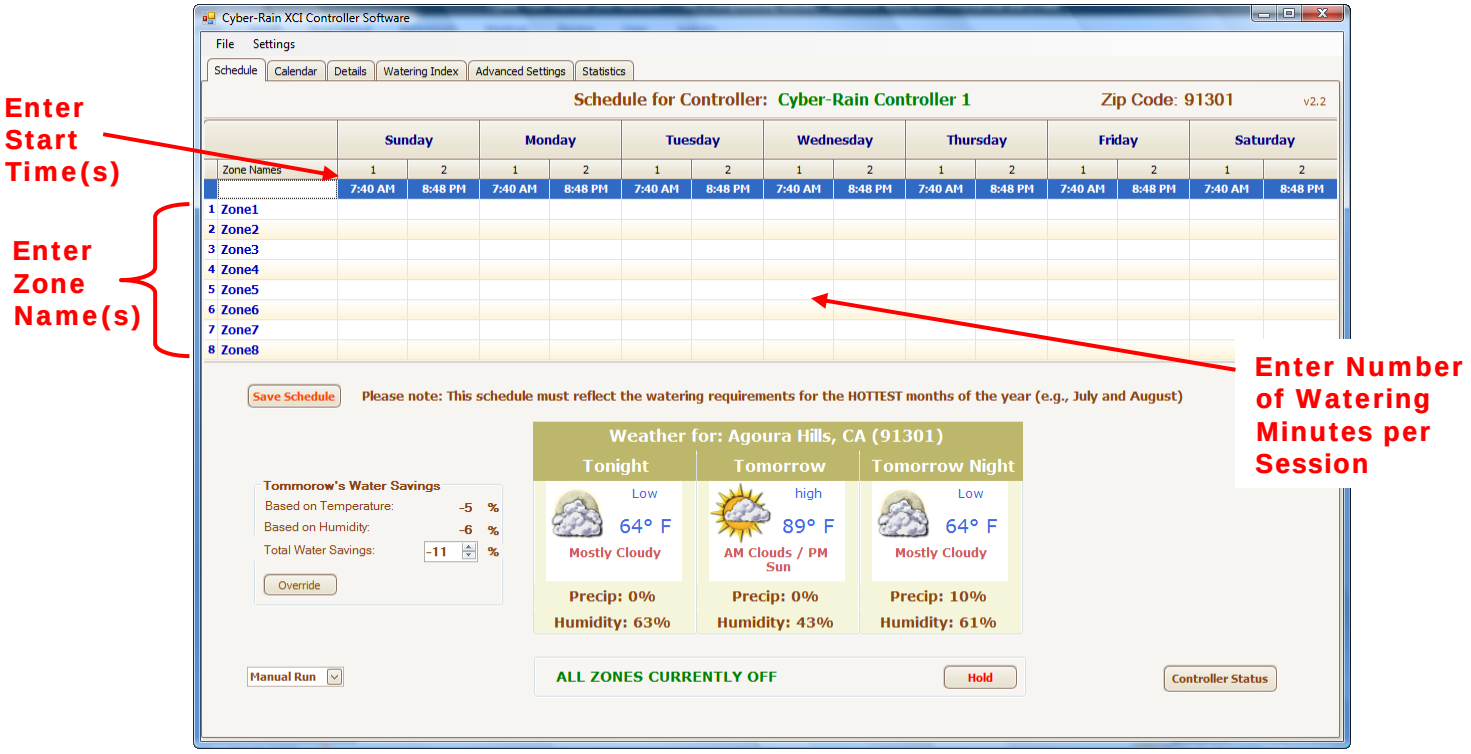
The “Controller Setup” screen opens. Follow these steps:

a. Confirm that the serial number of your controller matches the serial number in your documentation (also on the back of the Cyber-Rain controller). If there is a discrepancy, contact Cyber-Rain technical support.
b. Give your controller a name (such as “Cyber-Rain Controller1” or “Joe’s Cyber-Rain”).
c. Each controller can control 1 to 8 zones. Select the total number of zones that you activated when inserting the valve wires into the controller unit.
d. **You can set your sprinklers to turn on 1 to 4 times a day.** Select the number that suits your needs, and then choose times for each watering cycle.

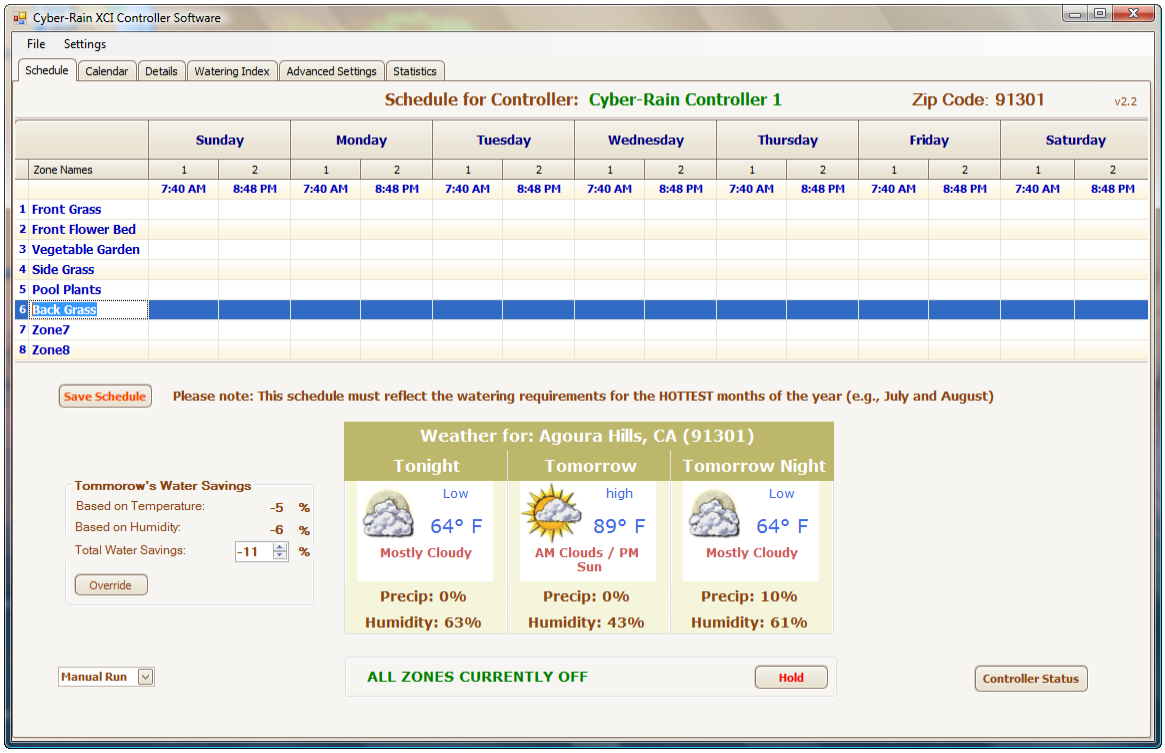
Note: You can change these settings at any time by accessing the “Setup Wizard” (see page 38).


Cyber Rain Setup Wizard
Let's set up each Cyber-Rain XCI Controller
Serial Number for controller
1
27-36-3D-12-00-00-C6
What would you like to call this controller?
Cyber-Rain 1
Please select a name between 1 and 24 characters
How many zones does this controller manage?
8
Each controller can manage up to 8 zones
The maximum number of times for sprinklers to turn on each day:
1
This is called number of programs. Each controller can have up to 4 programs.
The start time for the first program
8:40 AM
Click Next to Continue
< Previous
Next >
Finish
Cancel
CYBER-RAIN

The “Schedule for Controller” screen opens. This is the main screen for the Cyber-Rain application. You may assign names to each zone and set the **number of minutes** each zone is watered per start time each day. You can also change the start times for each watering cycle.

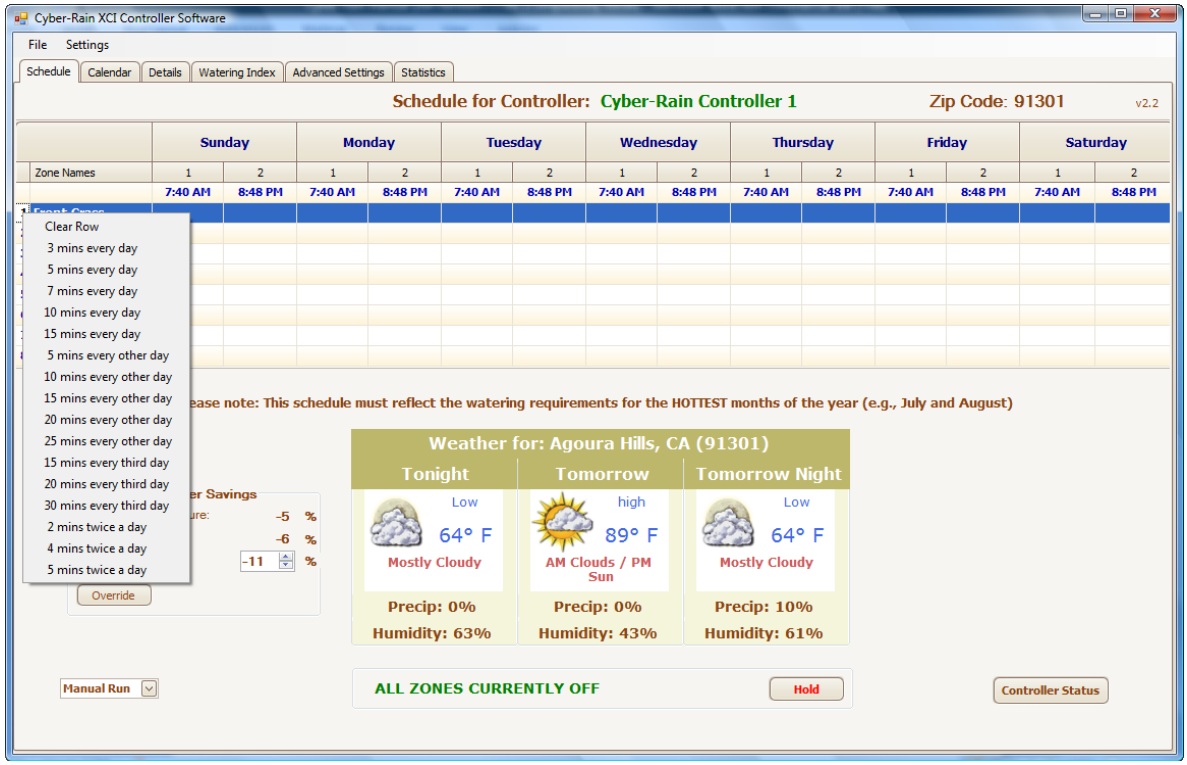


Click each of the zones in the column on the left of the Cyber-Rain application screen (zone names) and enter a name for each zone (e.g., front grass, front planter, side hedges). Continue until you have finished entering names for all of your zones.

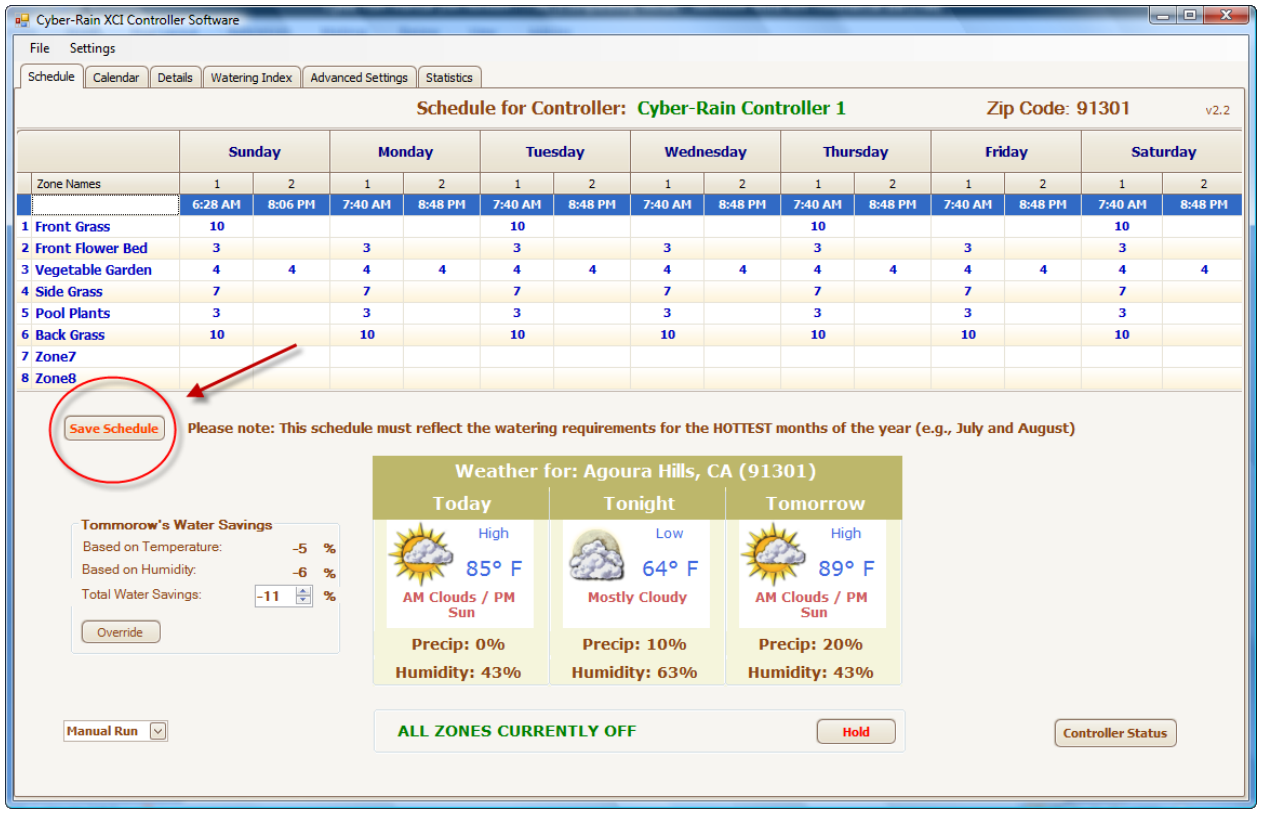


Next, enter the number of minutes you want each zone to be activated for each day at each start time. **Note: the watering times entered should reflect those of the hottest months of the year (typically July and August).** Cyber-Rain will automatically adjust the watering times based on your local weather conditions.

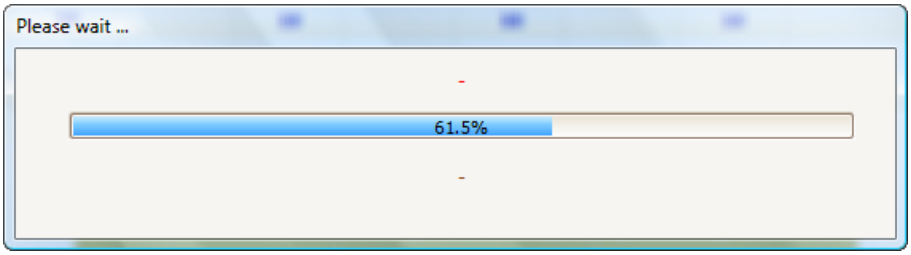
To save time when entering your watering schedule, you can right click on the zone numbers (located on the immediate left of the zone names) and select one of the choices from the drop-down menu.


Cyber-Rain XCI Controller Software
File Settings
Schedule Calendar Details Watering Index Advanced Settings Statistics
Schedule for Controller: Cyber-Rain Controller 1
Zip Code: 91301
v2.2
Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Zone Names
7:40 AM 8:48 PM
Clear Row
3 mins every day
5 mins every day
7 mins every day
10 mins every day
15 mins every day
5 mins every other day
10 mins every other day
15 mins every other day
20 mins every other day
25 mins every other day
15 mins every third day
20 mins every third day
30 mins every third day
2 mins twice a day
4 mins twice a day
5 mins twice a day
Override
Weather for: Agoura Hills, CA (91301)
Tonight Tomorrow Tomorrow Night
Low 64° F Mostly Cloudy
high 89° F AM Clouds / PM Sun
Low 64° F Mostly Cloudy
Precip: 0% Humidity: 63%
Precip: 0% Humidity: 43%
Precip: 10% Humidity: 61%
Manual Run
ALL ZONES CURRENTLY OFF
Hold
Controller Status

After all times are entered, click “Save Schedule”.

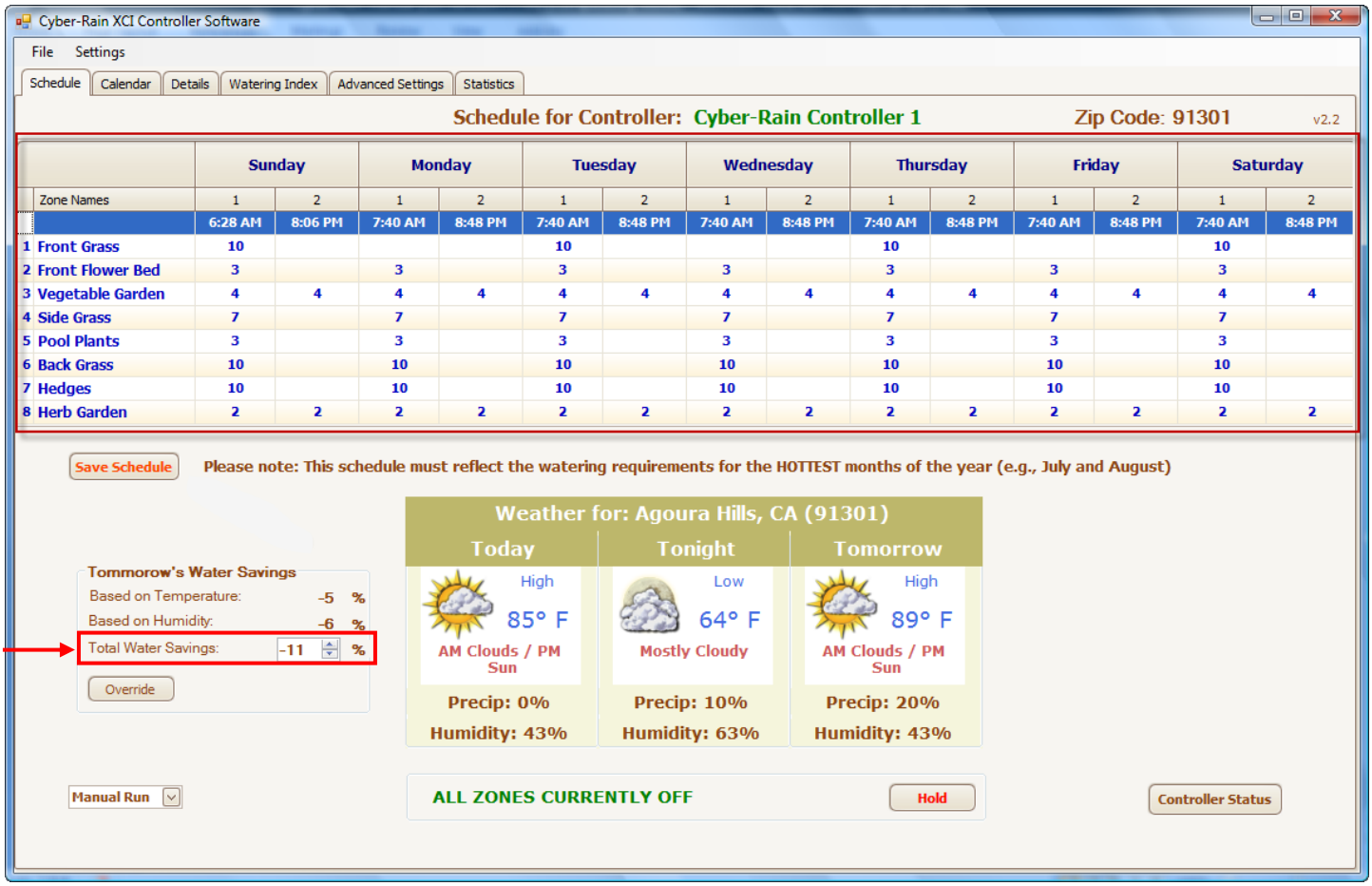

Cyber-Rain XCI Controller Software
File Settings
Schedule Calendar Details Watering Index Advanced Settings Statistics
Schedule for Controller: Cyber-Rain Controller 1
Zip Code: 91301
v2.2
Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Zone Names
6:28 AM 8:06 PM 7:40 AM 8:48 PM 7:40 AM 8:48 PM 7:40 AM 8:48 PM 7:40 AM 8:48 PM 7:40 AM 8:48 PM 7:40 AM 8:48 PM
1 Front Grass 10 10 10 10
2 Front Flower Bed 3 3 3 3 3 3 3
3 Vegetable Garden 4 4 4 4 4 4 4 4 4 4 4 4 4 4
4 Side Grass 7 7 7 7 7 7
5 Pool Plants 3 3 3 3 3 3 3
6 Back Grass 10 10 10 10 10 10 10
7 Zone7
8 Zone8
Save Schedule
Please note: This schedule must reflect the watering requirements for the HOTTEST months of the year (e.g., July and August)
Tommorow's Water Savings
Based on Temperature: -5 %
Based on Humidity: -6 %
Total Water Savings: -11 %
Override
Weather for: Agoura Hills, CA (91301)
Today Tonight Tomorrow
High 85° F AM Clouds / PM Sun
Low 64° F Mostly Cloudy
High 89° F AM Clouds / PM Sun
Precip: 0% Humidity: 43%
Precip: 10% Humidity: 63%
Precip: 20% Humidity: 43%
Manual Run
ALL ZONES CURRENTLY OFF
Hold
Controller Status

Cyber rain will automatically transfer this watering schedule to your controller. A progress window shows the status of the schedule's transfer to your controller.

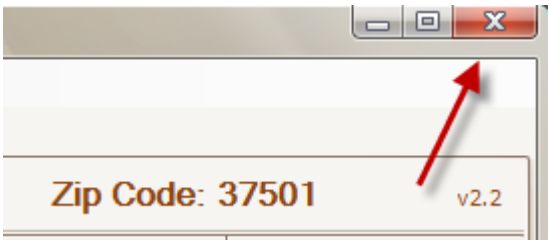


Congratulations! You have finished programming your Cyber-Rain XCI Controller.

Cyber-Rain has already made adjustments for tomorrow's watering based on the weather forecast and has communicated this to your controller. You can see how much water you will be saving tomorrow on the screen.



Close the window by clicking on the close button (the red X) on the top right corner of the screen. Cyber-Rain continues to run as a background process, continually monitoring weather conditions and adjusting your watering times to conserve water and save you money.



Basic Operation

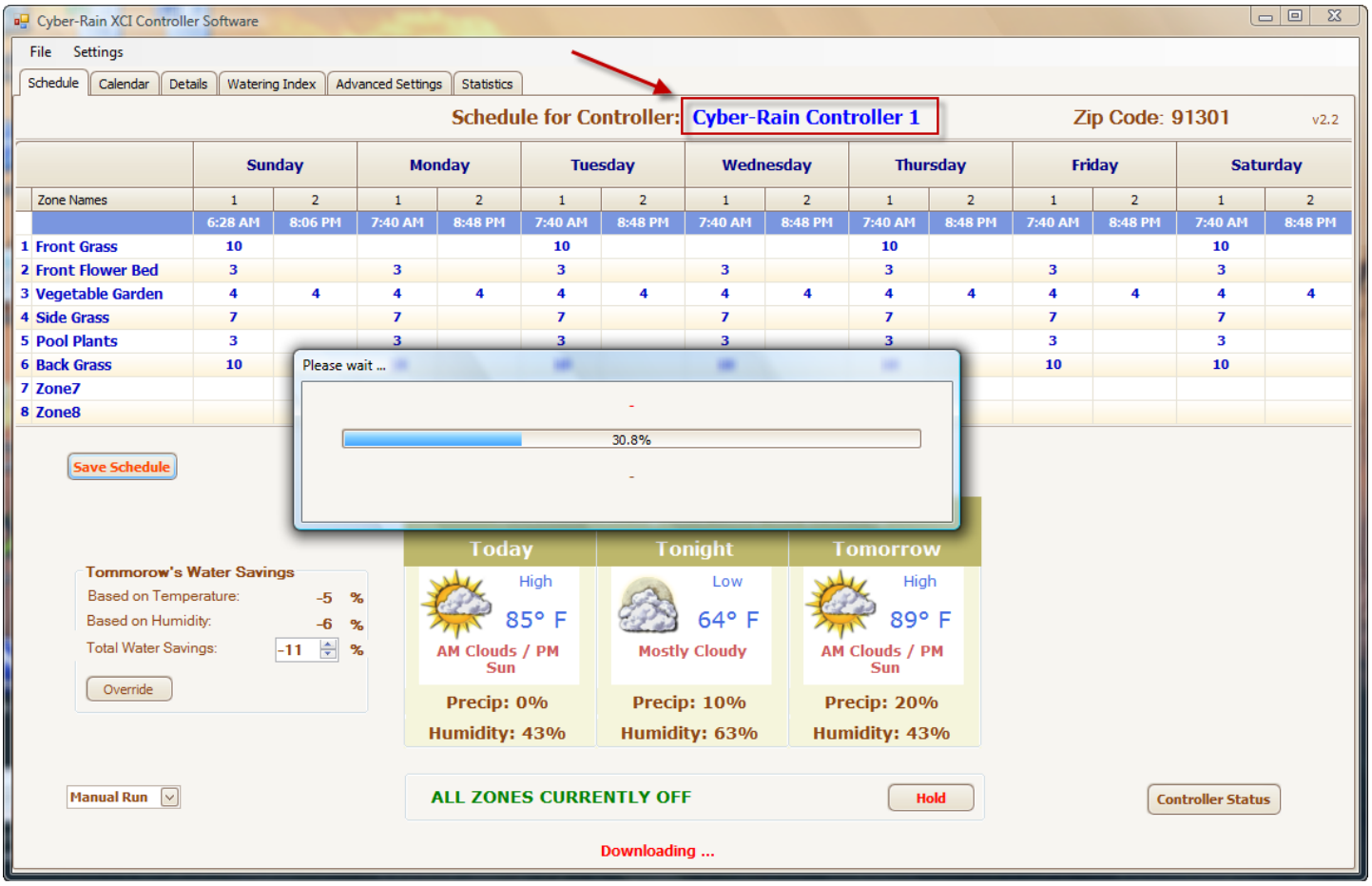
After the initial setup and scheduling, your Cyber-Rain software runs in the background and is not visible. The only indication of its presence is the icon in the notification area. This icon can change, depending on the status of your system. This is what the Notification Icon looks like when Cyber-Rain is running normally.

Right clicking on the Notification Icon allows you to open the main screen, enter the settings screen, or close the application,

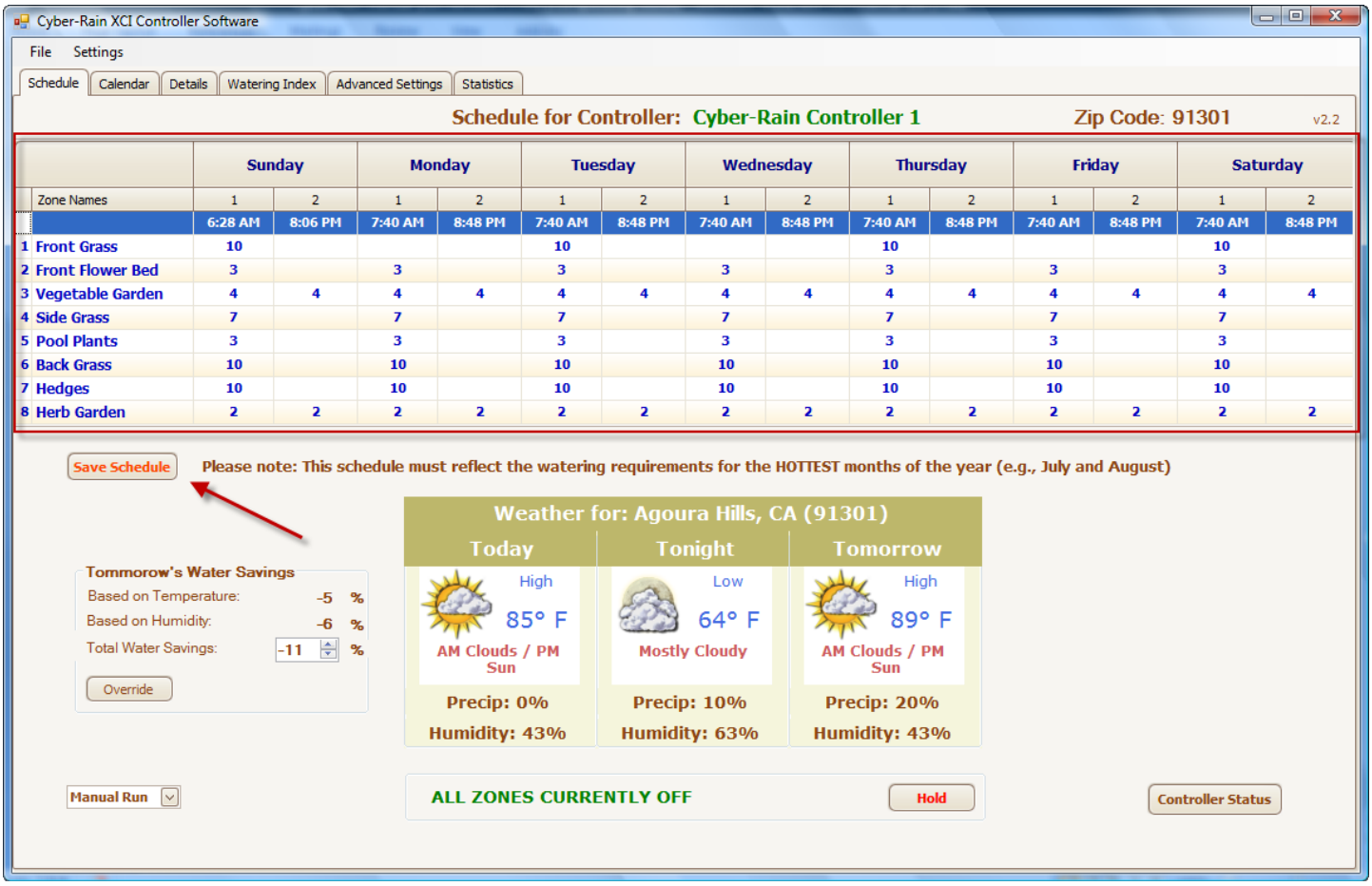
The Notification Icon displays an umbrella to indicate that watering will be stopped due to rain or other weather conditions.

The Notification Icon shows a red disconnected wire when the wireless connection to the Cyber-Rain controller has been lost.

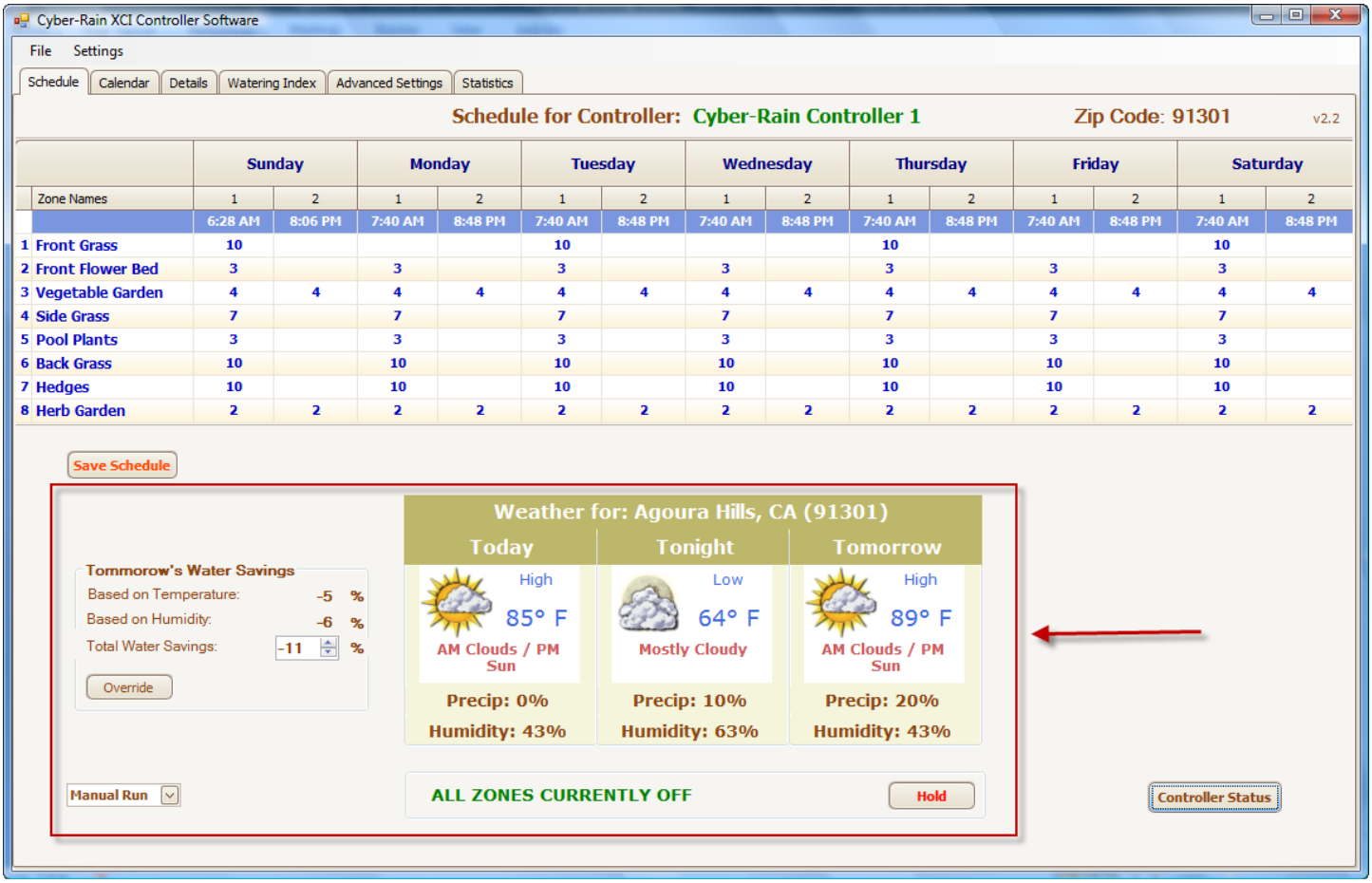
At the top of the “Schedule for Controller” screen, you will see the name of the controller. The name is normally displayed in **green** text. **Orange** text indicates that the USB access point is disconnected. **Red** text indicates trouble communicating with the controller. The color changes to **blue** when the USB access point is communicating with the controller (see image below).



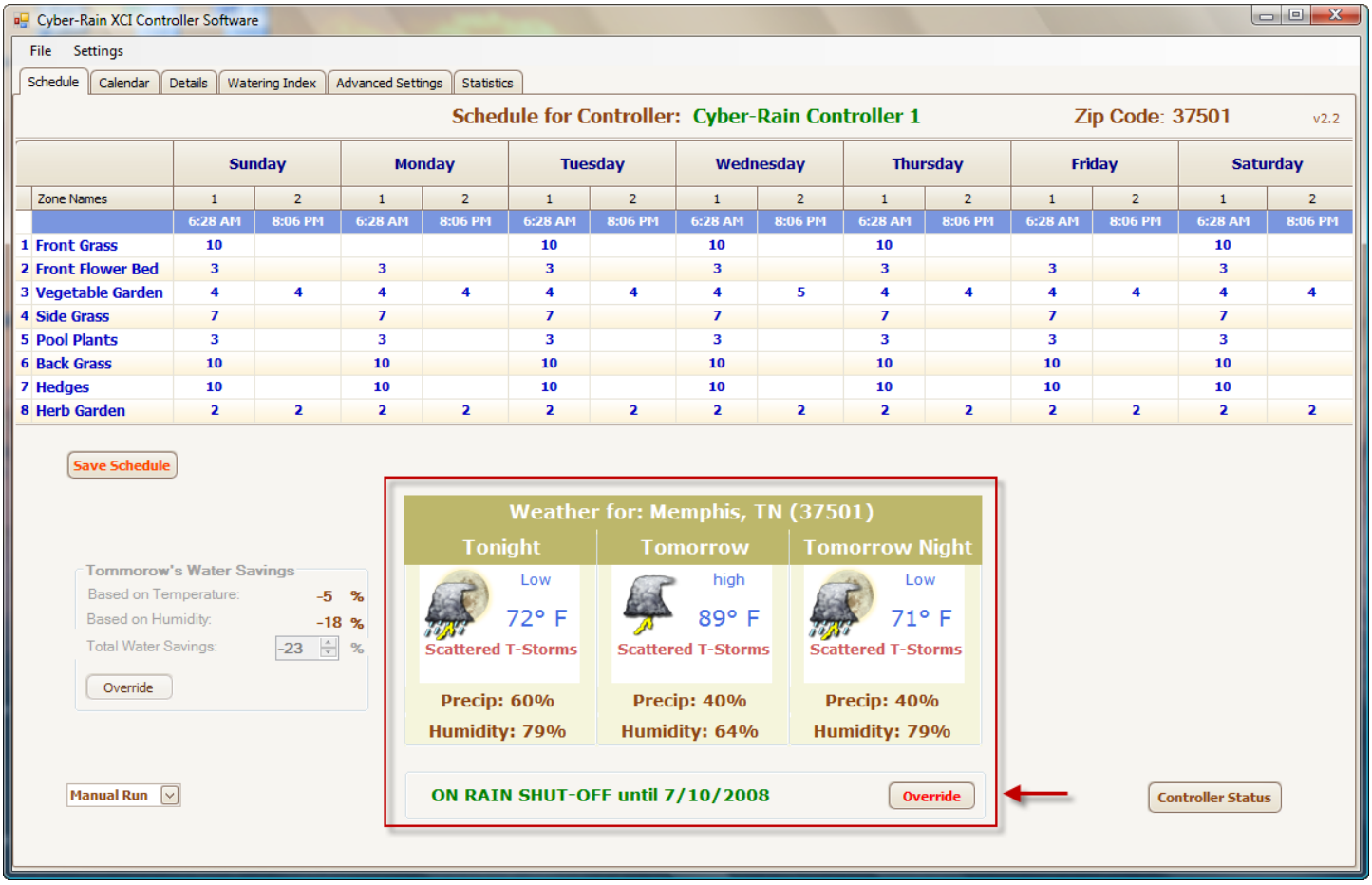
The middle portion of the Schedule for Controller screen displays your watering schedule. On the left, you see the names of the zones as you assigned them. On the right, you see the watering times in minutes for each start time for each day and zone. You can easily change any name or watering time by simply typing over the current entry. **After changing any entries, click "Save Schedule" to save your changes and send them to the controller.**



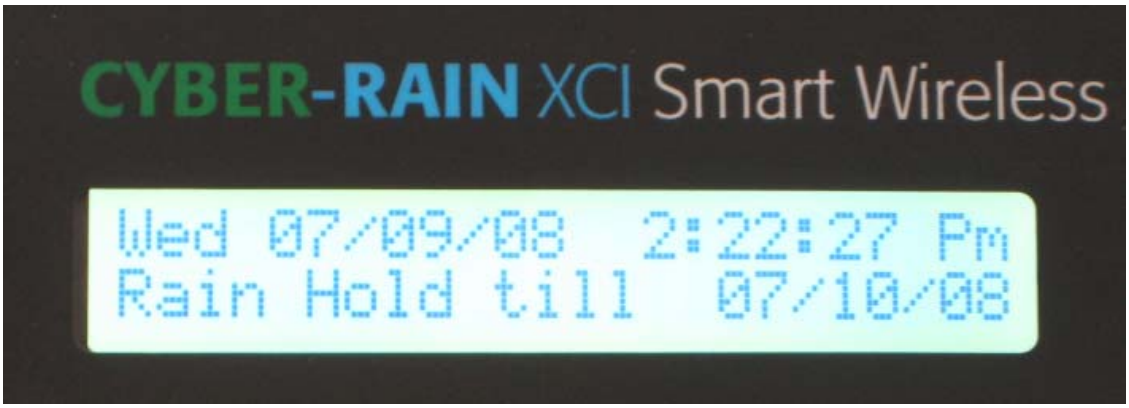
The bottom portion of the screen shows your local weather forecast and the corresponding adjustments to your watering times. The screen below shows that for tomorrow, your watering time will be reduced by 11%. You have the option to adjust this percentage by changing the Total Water Savings value, clicking the “Override” button, and then clicking the “Save Schedule” button.



If rain is forecasted, the system will automatically stop all watering until the rain clears. If you wish to override this, you can click the “Override” button.

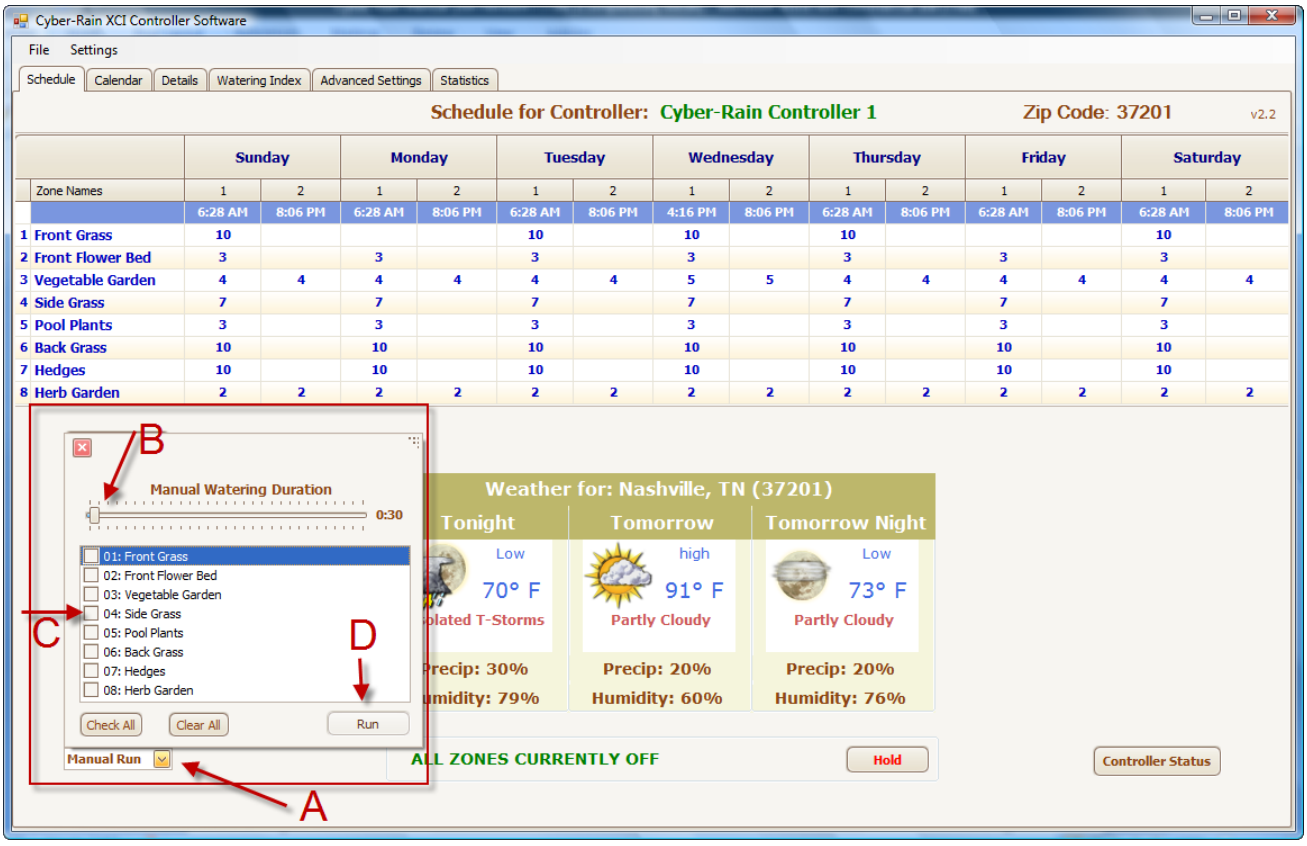


When rain is forecast, the display on the controller also indicates that all watering has stopped due to rain.

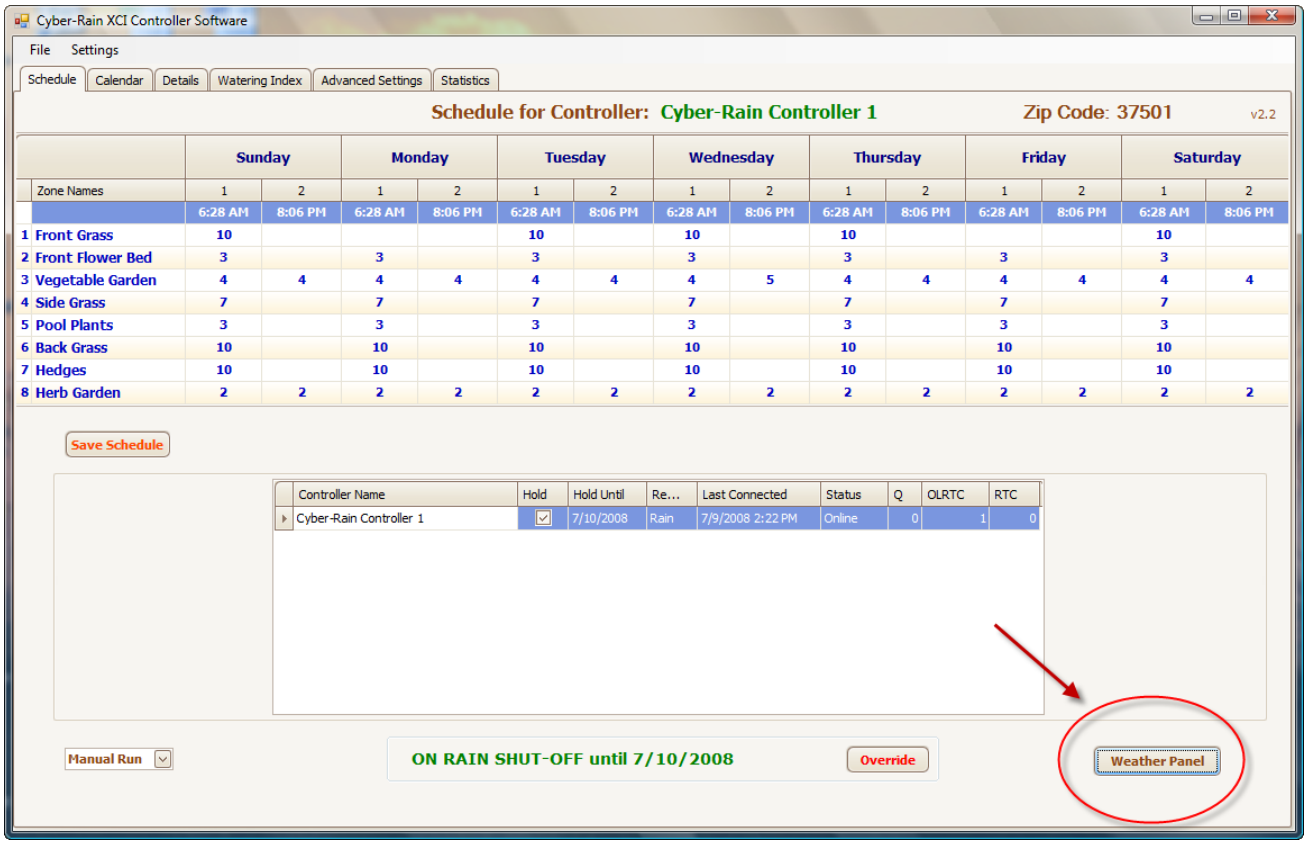


The Notification Icon changes to an umbrella to indicate a rain forecast.

On the bottom left hand side of the screen, there is a menu that reads “Manual Run”. Clicking this menu (A) brings up a window as is shown below. Move the slider bar at the top of this window (B) to change the desired duration of the cycle. Click on the box to the immediate left of each zone name (C) in order to activate specific zones The “Check All” and “Clear All” buttons on the bottom left allow you to quickly select or deselect all zones. Click the “Run” button on the bottom right of the window (D) to run the selected stations manually.

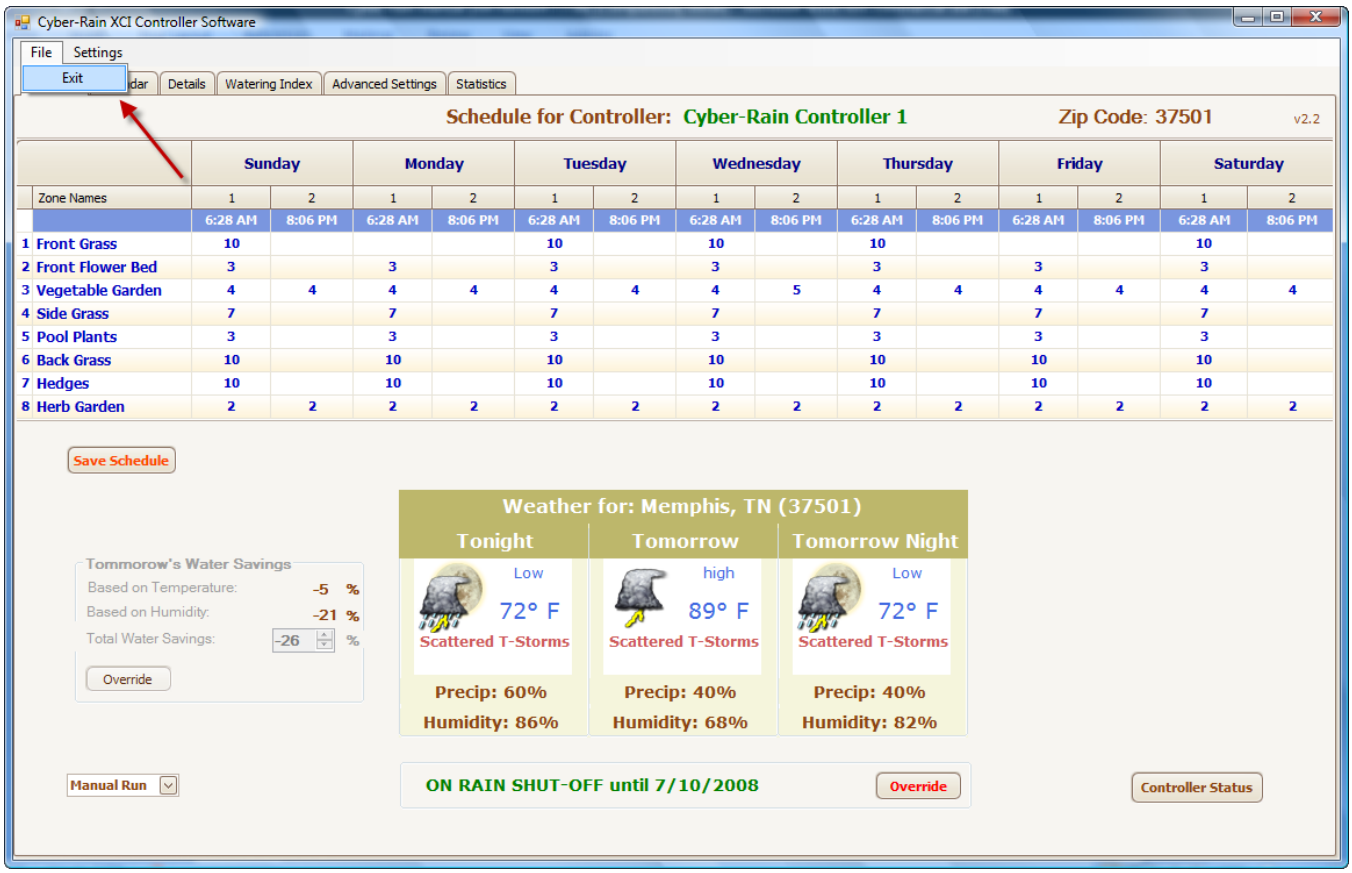


On the bottom right hand side of the screen, there is a button that toggles back and forth between “Controller Status” and “Weather Panel”. If you click on “Controller Status” you will see a list of the current controllers you have connected along with their status in place of the weather panel. Note that the last three columns are used to assist with technical support should it be required. To return to weather information, simply click on the button again (it now reads “Weather Panel”).



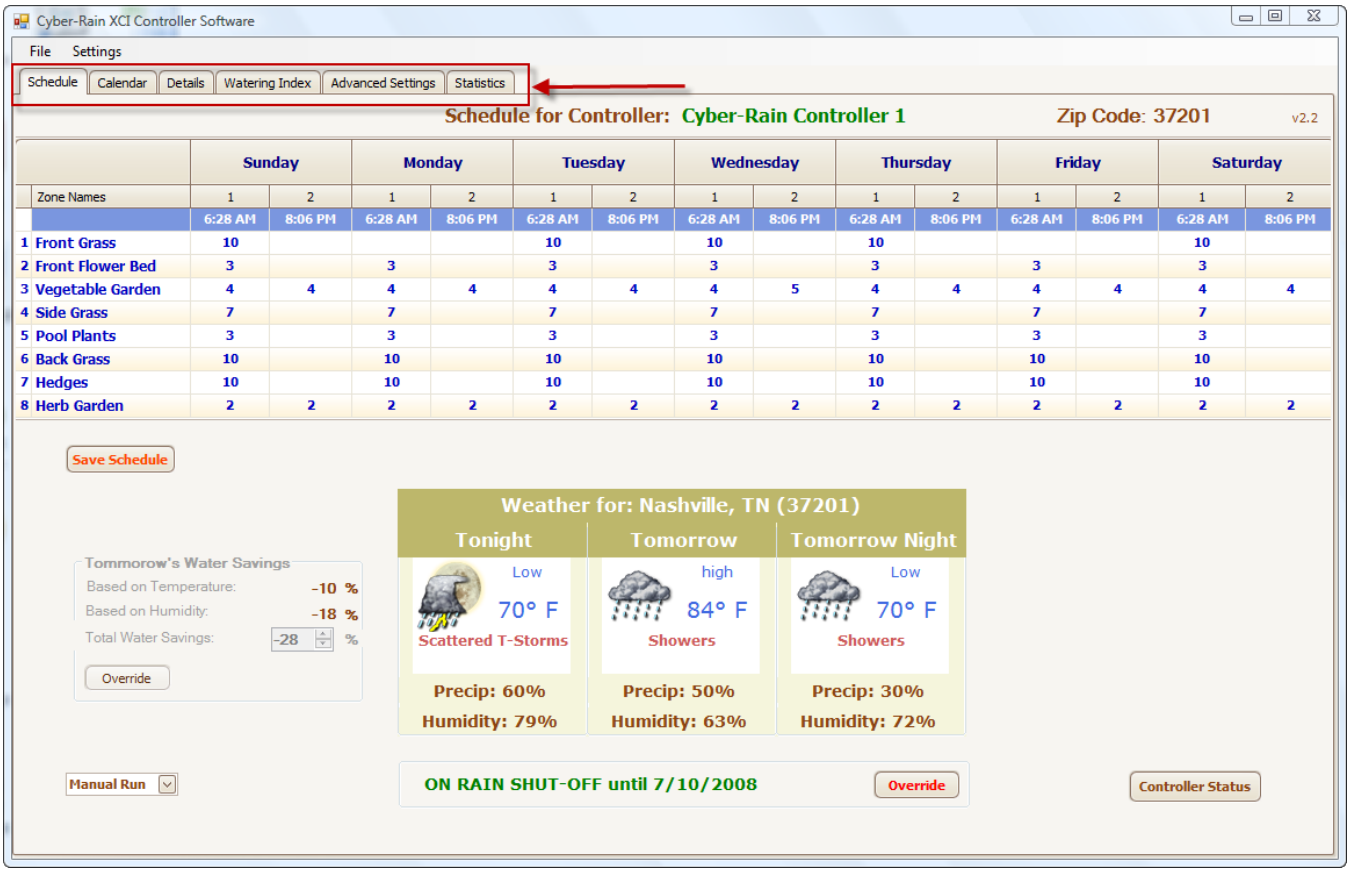
When you have finished, it is best to exit Cyber Rain by clicking the red X on the upper right of the screen. This way Cyber Rain continues to check the weather and update your controller so that your water savings are optimized.

However, if you wish to completely exit the application, select "Exit" from the File menu at the upper left corner. Please note that this is not recommended as the Cyber-Rain controller will not receive regular adjustments based on weather conditions. **Consequently, water use will not be optimized.**

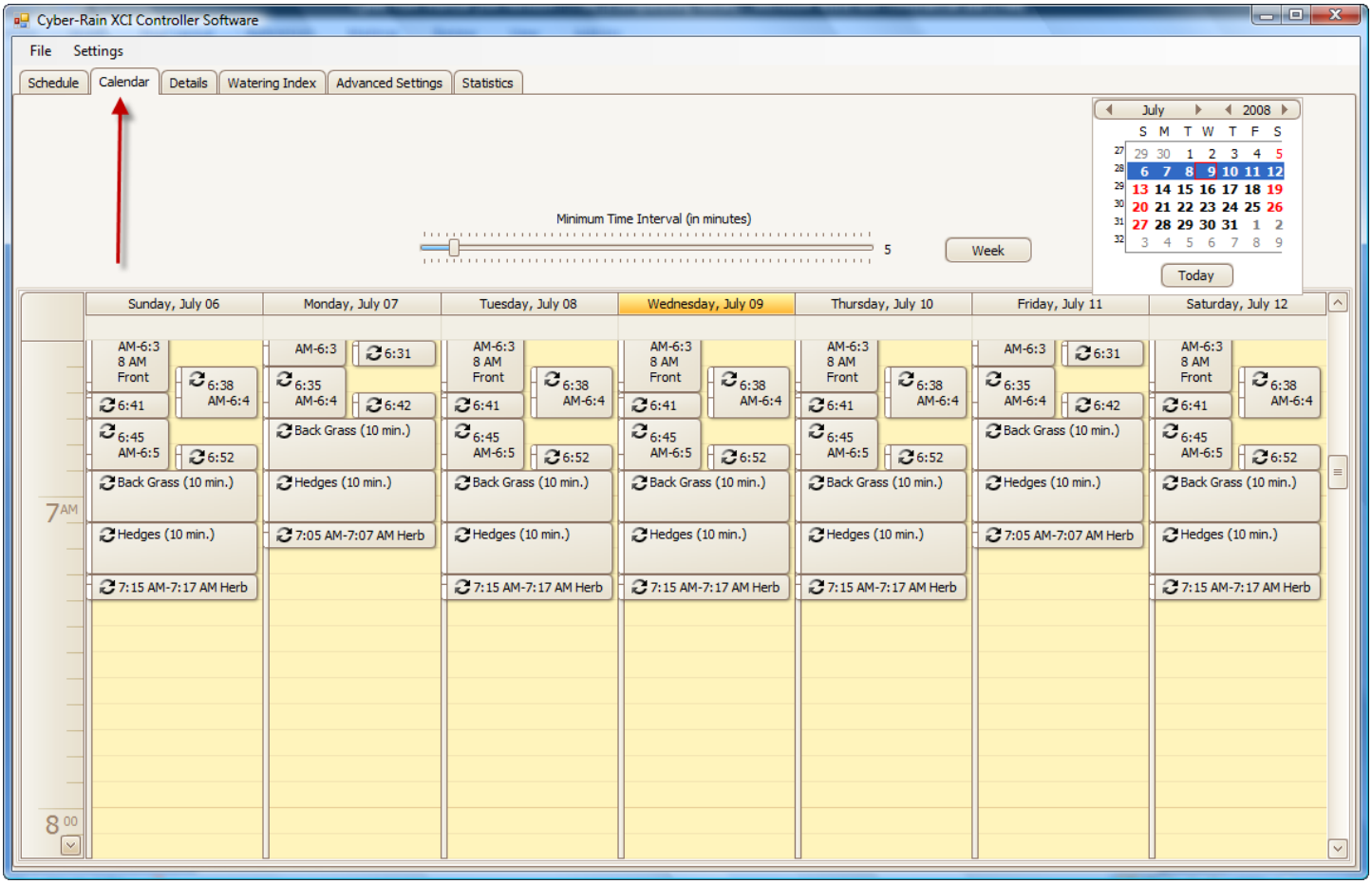


Advanced Features

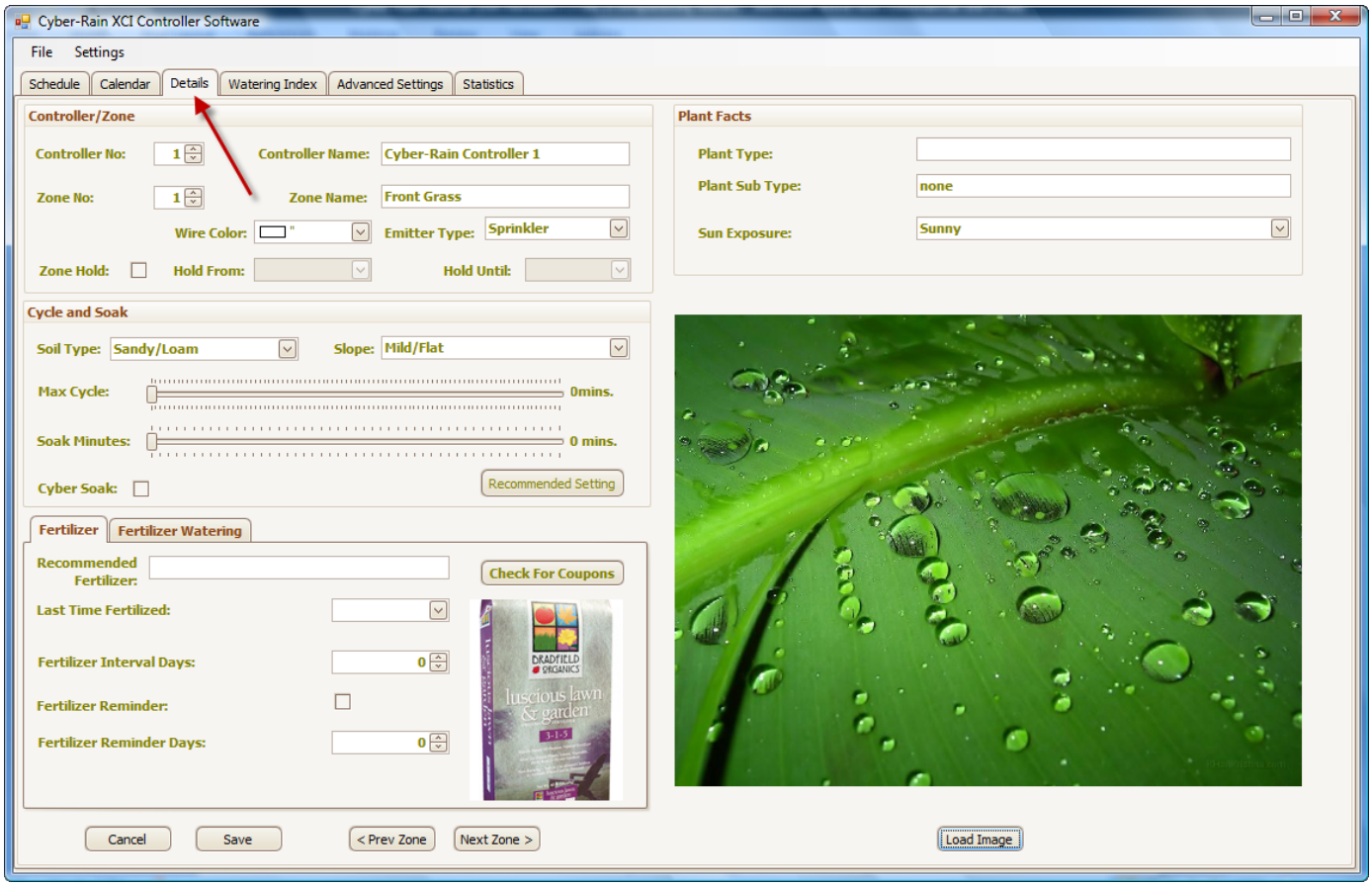
The menu tabs on the top of the screen allow you to access advanced features and information.



Click on the “Calendar” tab. A calendar view of your schedule opens. **This calendar is for informational purposes only; you cannot change your schedule from this screen.**



Click on the “Details” tab.



Details Screen Features:

- **Controller/Zone** This feature allows you to rename your controller(s) and/or zones.
- **Zone Hold** This feature allows you to put designated zones on hold. This means that for a designated time period, the sprinklers will not come on. To utilize this feature, click the check box and set the “Hold From” and “Hold Until” fields according to your needs.
- **Wire Color & Emitter Type:** Use these fields to retain information regarding which wires are attached to which zones and, also, which type of emitter is in use in that particular zone.
- **Plant Facts** Enter details about the plants, soil types, and sun exposure for each zone.
- **Cycle and Soak** This feature prevents water run-off. Water run-off is the wasted water that flows from saturated soil in your yard into the gutters and streets. Cycle and Soak divides the watering sessions on your schedule into alternating “On” (Cycle) and “Off” (Soak) periods, so that the soil has time to absorb the water. If you notice any run-off in a particular zone, make sure to enter the proper soil type and slope and click “Recommended Setting”. Next, click “Save” (on the bottom left corner, next to “Cancel”). Cyber-Rain will then automatically adjust the watering in this zone to reduce run-off. Note: The **total** watering time will not change, but will be divided into sessions; allowing time for the soil to absorb water in between applications. These cycles will not be reflected on the schedule or calendar pages, but will be transmitted to your controller.
- **Fertilizer Section:** Use this section to record details about fertilizing and to set reminders. Click on the “Fertilizer Watering” tab to temporarily increase watering following fertilization,

planting new sod, etc. Click “Save” (on the bottom left corner, next to “Cancel”) after making any changes to the “Fertilizer Watering” section.

- **Zone Images:** You can upload your own photos of each of your zones to replace the stock photos provided.

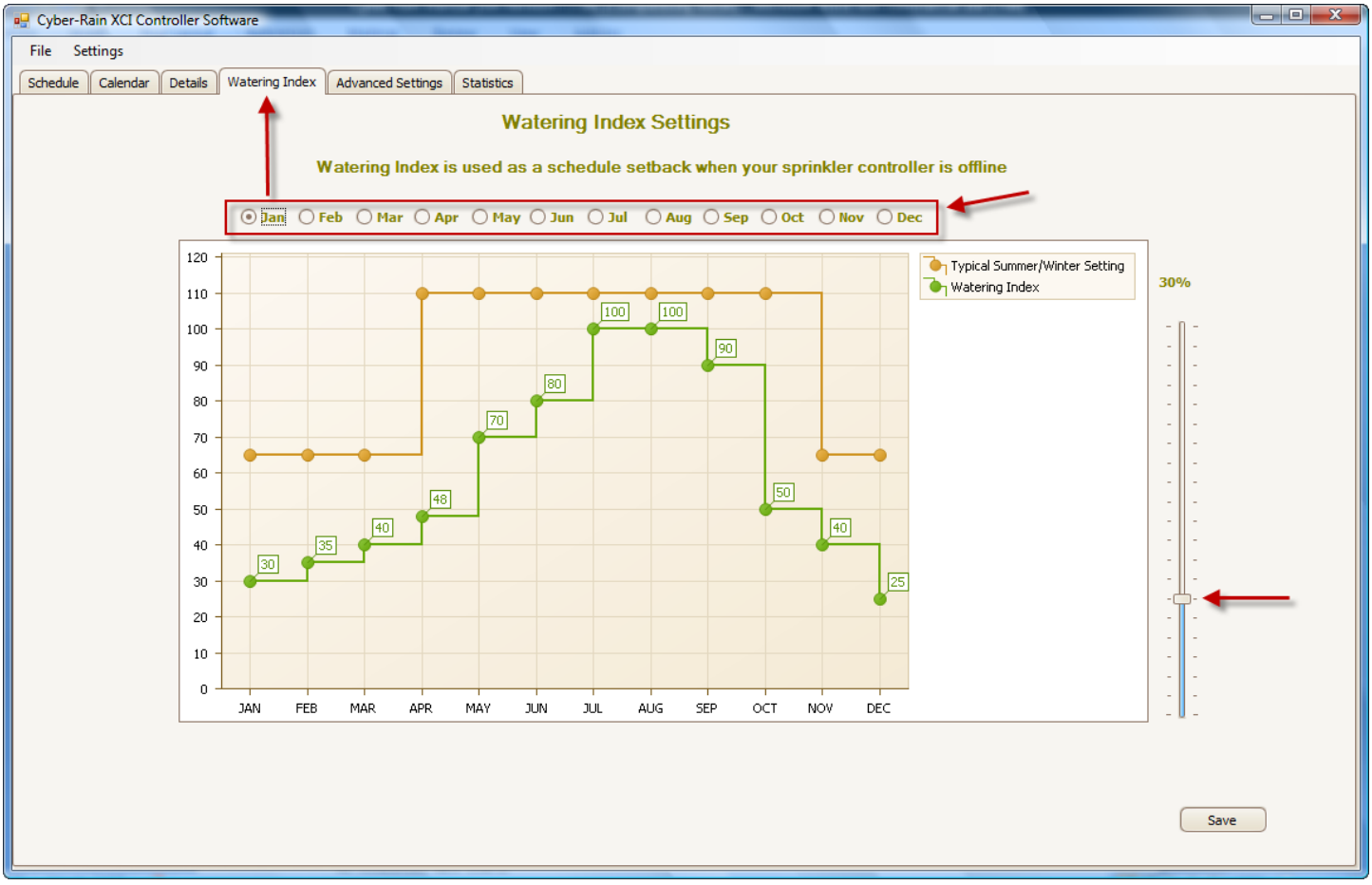
Watering Index

Click on the “Watering Index” tab. Normally, your watering need will automatically be calculated and adjusted based on the weather in your area. However, if your computer is not on for more than 24 hours or you do not have Internet connectivity, Cyber-Rain controllers will default to a seasonal watering index.

The Watering Index displays the watering reductions based on the historic seasonal watering pattern. Cyber-Rain ships with a Southern California index as default (the green line on the chart below). You can customize this for your area.

Remember that you originally set your watering schedule for the hottest months of the year. In Southern California these are July and August, which is why the green line of the watering index is at 100% in the chart below. During the month of January in Southern California, landscapes have historically needed only 30% of the water used during the summer so the default for January is 30% (as indicated by the green line.) This means that if you have set your schedule to water a zone for 10 minutes and your PC is offline in January, your controller will only water that zone for 3 minutes.

If you would like to customize your index for your area, first select the month (at the top), and then use the slider on the right to set the default water reduction for that month.

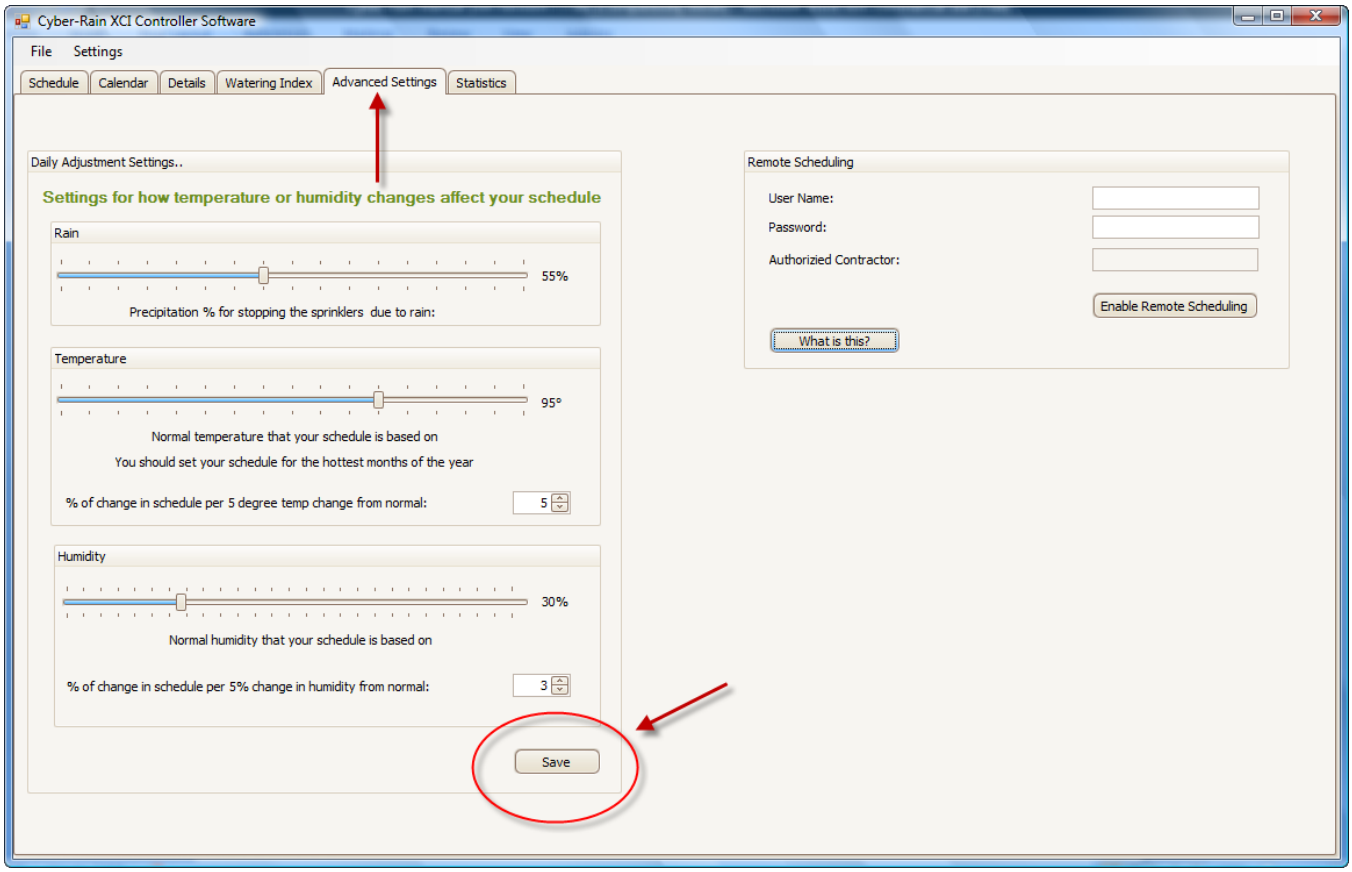


Advanced Settings

Click on the “Advanced Settings” tab.

- **Daily Adjustment Settings** On the left side of the screen are the settings that determine how sensitive your watering will be to precipitation, temperature and humidity. Normally, you should not adjust these, as they have been calculated to deliver the optimal amount of water under different conditions. Some contractors and advanced users may wish to experiment. Click “Save” at the bottom of this window to apply your changes.

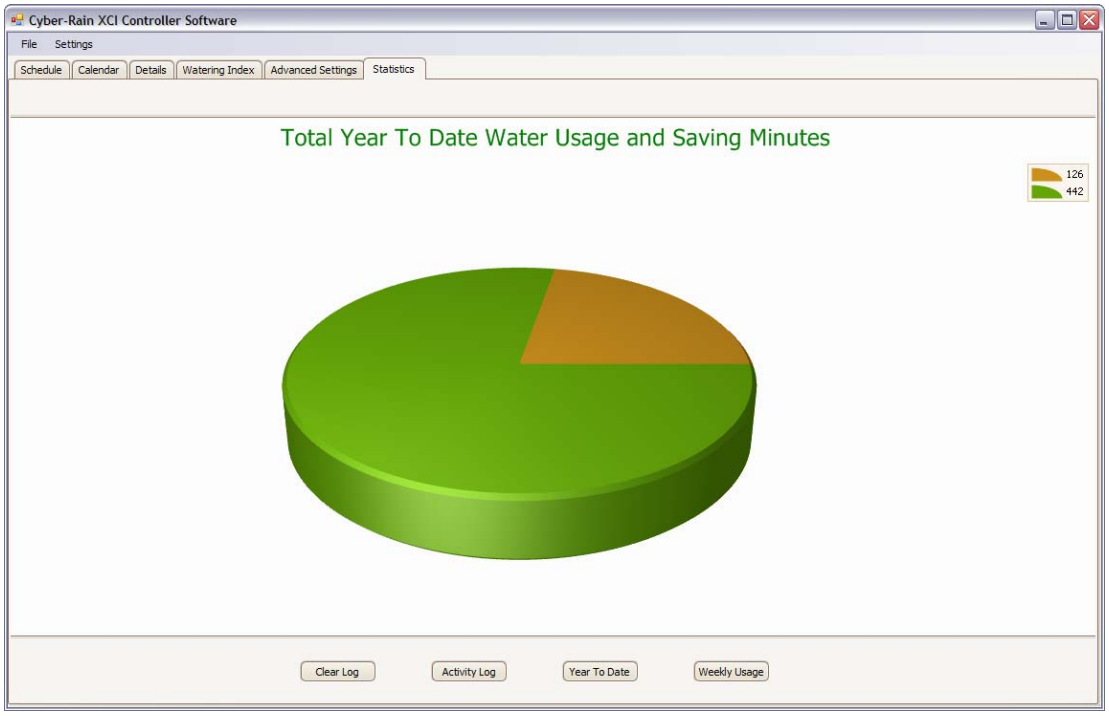
- **Remote Scheduling** COMING SOON!



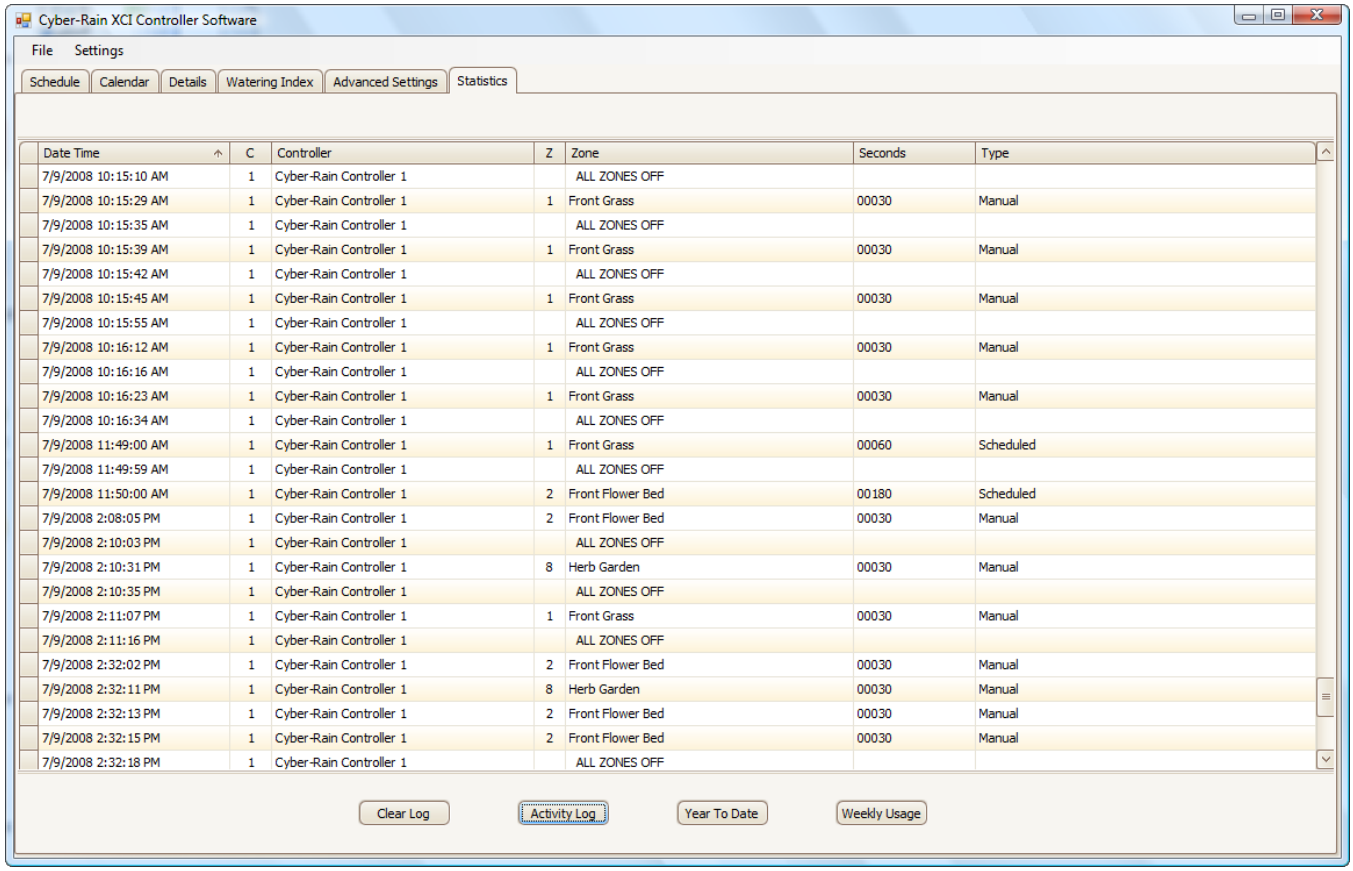
Click the “Statistics” tab to view your actual water usage minutes and your water savings minutes.

On the chart below, the total height of the bar is the number of total watering minutes that you input for the hottest day of the year, for ALL controllers and zones you have installed. The blue, bottom part of each bar is the actual minutes used and the green is the savings due to adjustments made by Cyber-Rain for the weather.

You can also view your year-to-date water usage and savings minutes.



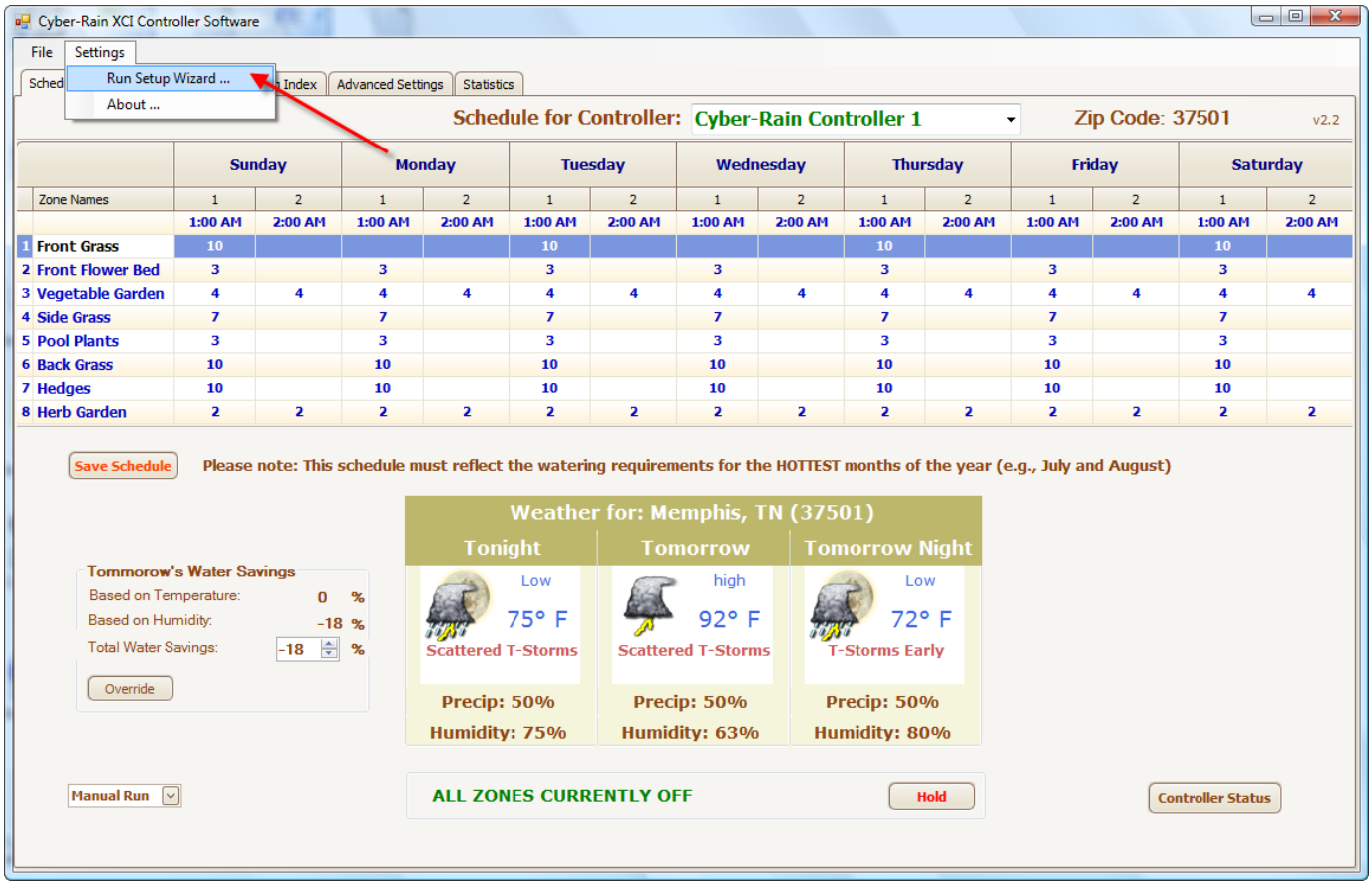
The Activity Log shows the watering activity activated by your controller. You can clear the log by clicking on the “Clear Log” button at the bottom of the screen.



Date Time	C	Controller	Z	Zone	Seconds	Type
7/9/2008 10:15:10 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 10:15:29 AM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 10:15:35 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 10:15:39 AM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 10:15:42 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 10:15:45 AM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 10:15:55 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 10:16:12 AM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 10:16:16 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 10:16:23 AM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 10:16:34 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 11:49:00 AM	1	Cyber-Rain Controller 1	1	Front Grass	00060	Scheduled
7/9/2008 11:49:59 AM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 11:50:00 AM	1	Cyber-Rain Controller 1	2	Front Flower Bed	00180	Scheduled
7/9/2008 2:08:05 PM	1	Cyber-Rain Controller 1	2	Front Flower Bed	00030	Manual
7/9/2008 2:10:03 PM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 2:10:31 PM	1	Cyber-Rain Controller 1	8	Herb Garden	00030	Manual
7/9/2008 2:10:35 PM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 2:11:07 PM	1	Cyber-Rain Controller 1	1	Front Grass	00030	Manual
7/9/2008 2:11:16 PM	1	Cyber-Rain Controller 1		ALL ZONES OFF		
7/9/2008 2:32:02 PM	1	Cyber-Rain Controller 1	2	Front Flower Bed	00030	Manual
7/9/2008 2:32:11 PM	1	Cyber-Rain Controller 1	8	Herb Garden	00030	Manual
7/9/2008 2:32:13 PM	1	Cyber-Rain Controller 1	2	Front Flower Bed	00030	Manual
7/9/2008 2:32:15 PM	1	Cyber-Rain Controller 1	2	Front Flower Bed	00030	Manual
7/9/2008 2:32:18 PM	1	Cyber-Rain Controller 1		ALL ZONES OFF		

Setup Wizard

The selections in the “Run Setup Wizard” drop-down menu are not used for day-to-day running of the application. They are used for adding additional controllers to your system, changing the number of start times or the beginning time for start times, etc. When you click on “Run Setup Wizard”, a wizard will guide you to make your selections.



Adding Additional Controllers

If you require more than 8 watering zones, you will need to purchase an additional Cyber-Rain XCI 8-zone controller (Item#CRXCI-AC01) available from Cyber-Rain or your local authorized retailer. Multiple controllers can be operated from a single PC using the same remote wireless access point included in the complete system. The controllers do not need to be collocated as long as they are within range of the Cyber-Rain wireless access point.

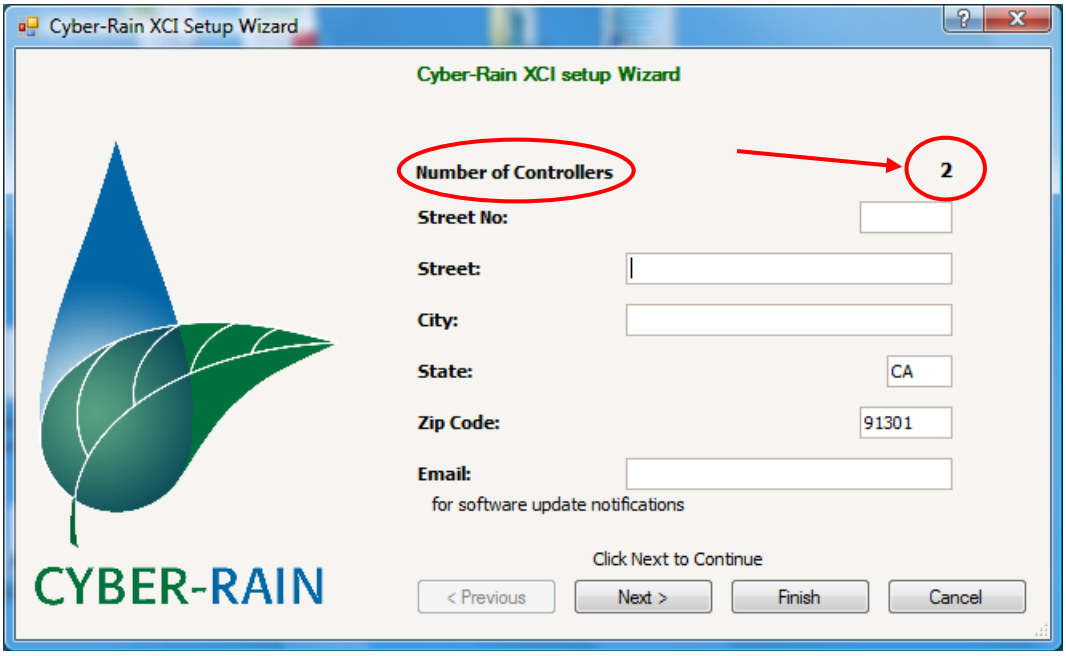
Installation of Additional Controllers

1. Installing Additional Controllers

- Please follow controller installation steps #1-2 found on page 3 of this manual for installation of each controller.

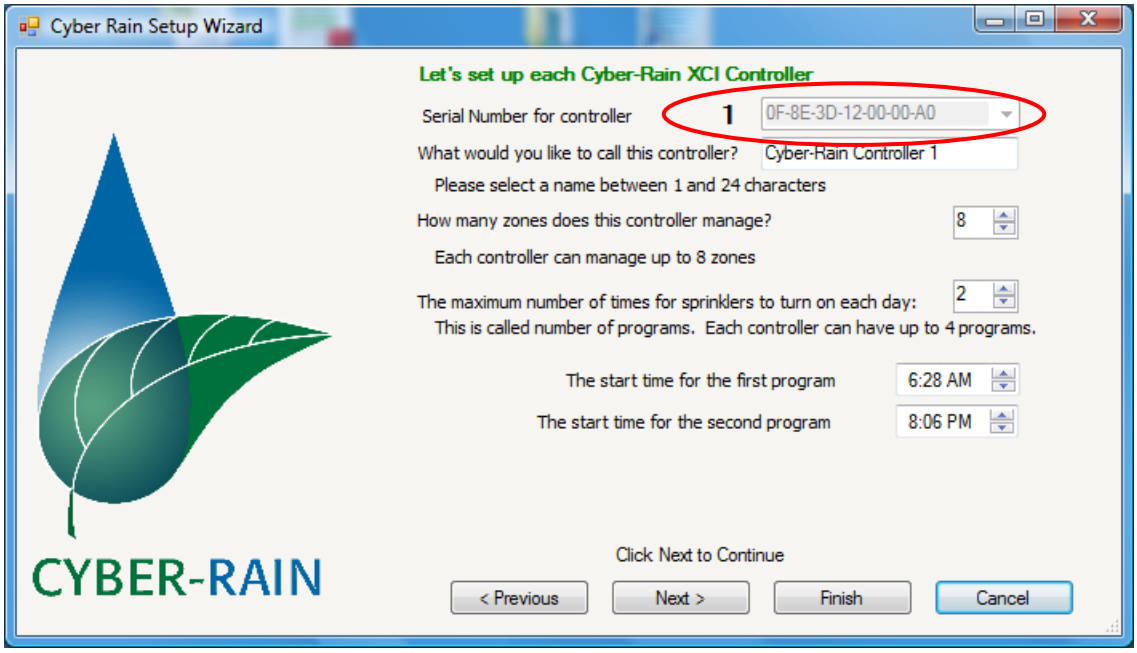
2. Adding Additional Controllers to the Software Interface

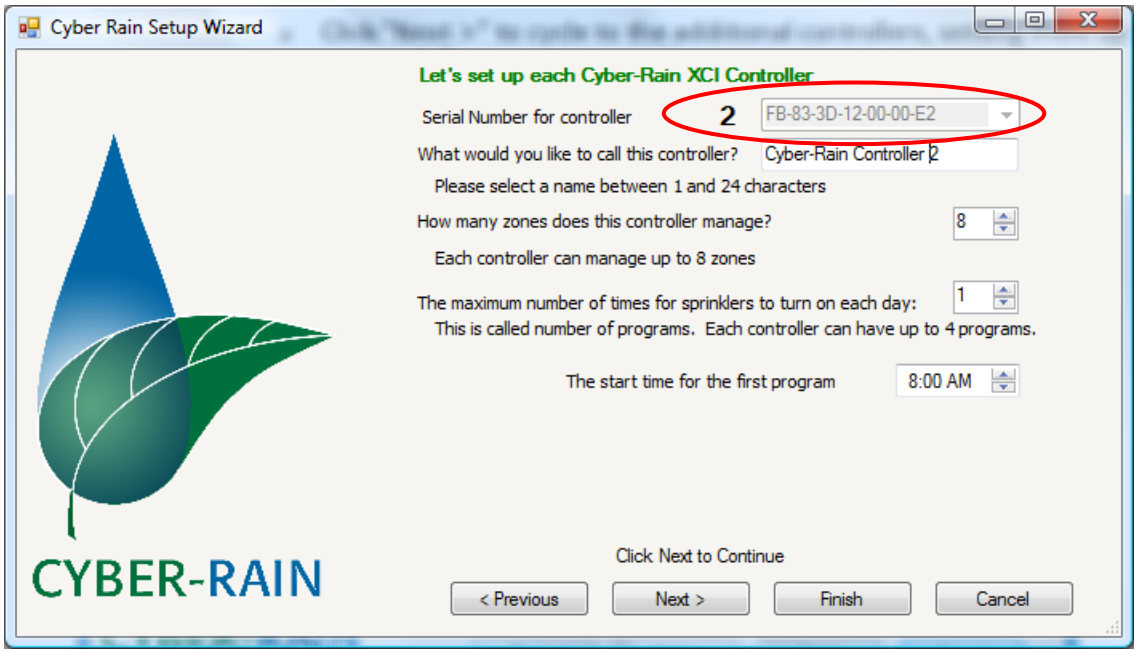
- Make sure each additional controller is plugged in.
- Access the Cyber-Rain Setup Wizard as shown on page 40.
- Newly added controllers are automatically detected and can be setup by accessing the the "Controller Setup" screen as shown on page 20. The total number of controllers found will be indicated in the setup wizard (shown below).



- Click "Next >".
- The "Controller Setup" screen opens for each controller (see figures below), in sequence. For each controller, follow these steps:
  - Confirm that the serial number of your controller matches the serial number in your documentation (also on the back of the Cyber-Rain controller). If there is a discrepancy, contact Cyber-Rain technical support.
  - Give each controller a name (such as "Cyber-Rain Controller1", "Cyber-Rain Controller2", etc).
  - Each controller can control 1 to 8 zones. Select the total number of zones that you activated when inserting the valve wires into the controller unit.
  - **You can set each controller to turn on sprinklers 1 to 4 times a day.** Select the number that suits your needs, and then choose times for each watering cycle.

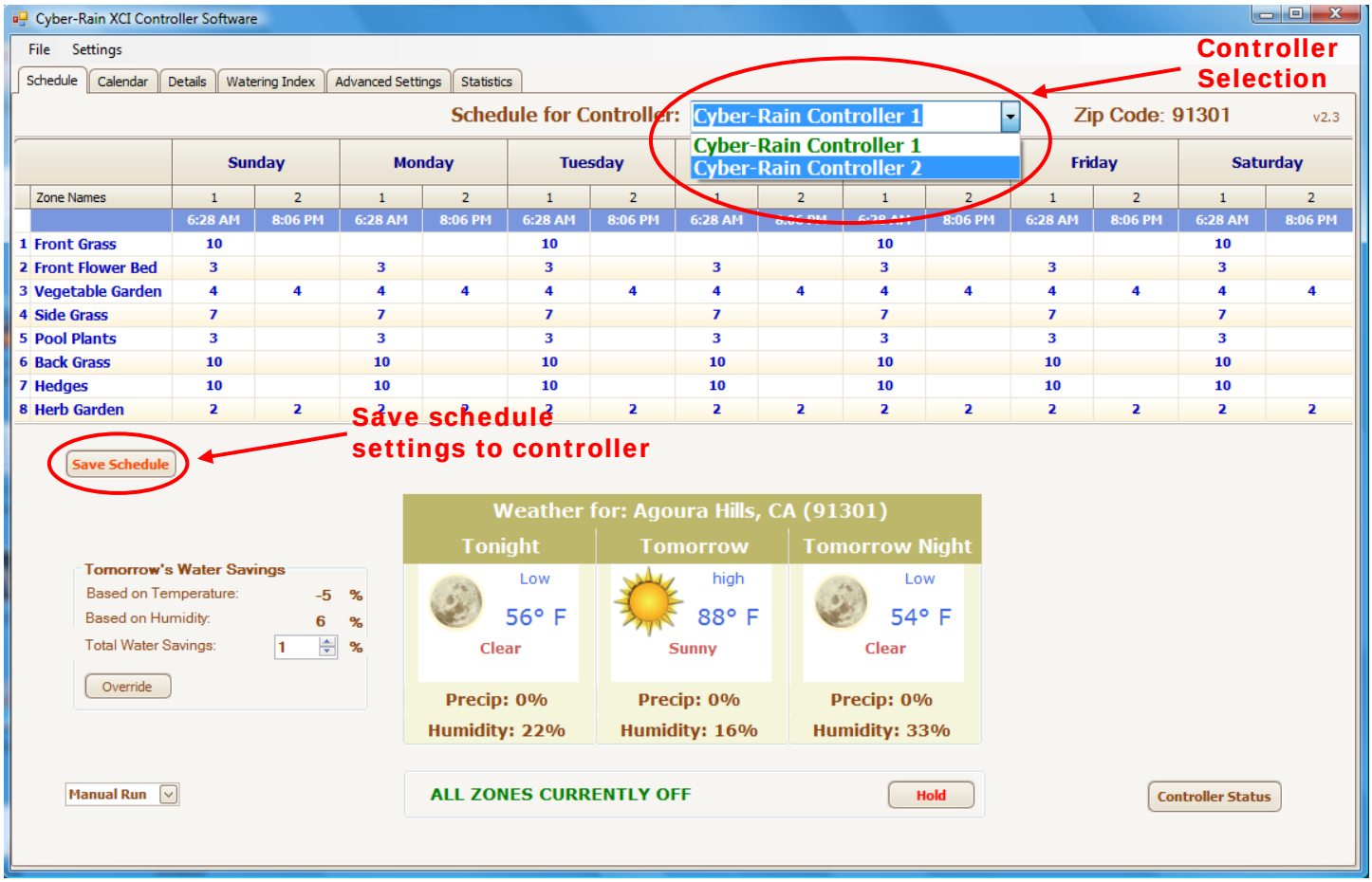
- Click “Next >” to cycle to the additional controllers, setting them up sequentially.


Cyber Rain Setup Wizard
Let's set up each Cyber-Rain XCI Controller
Serial Number for controller
1
0F-8E-3D-12-00-00-A0
What would you like to call this controller?
Cyber-Rain Controller 1
Please select a name between 1 and 24 characters
How many zones does this controller manage?
8
Each controller can manage up to 8 zones
The maximum number of times for sprinklers to turn on each day:
2
This is called number of programs. Each controller can have up to 4 programs.
The start time for the first program
6:28 AM
The start time for the second program
8:06 PM
CYBER-RAIN
Click Next to Continue
< Previous
Next >
Finish
Cancel


Cyber Rain Setup Wizard
Let's set up each Cyber-Rain XCI Controller
Serial Number for controller
2
FB-83-3D-12-00-00-E2
What would you like to call this controller?
Cyber-Rain Controller 2
Please select a name between 1 and 24 characters
How many zones does this controller manage?
8
Each controller can manage up to 8 zones
The maximum number of times for sprinklers to turn on each day:
1
This is called number of programs. Each controller can have up to 4 programs.
The start time for the first program
8:00 AM
CYBER-RAIN
Click Next to Continue
< Previous
Next >
Finish
Cancel

3. Scheduling Watering Times on Additional Controllers (see page 21)

- The “Schedule for Controller” tab shows the main screen for the Cyber-Rain application. Additional controllers can be accessed from this screen using the pulldown selection menu next to “Schedule for Controller:”. As before, you may assign names to each zone and set the **number of minutes** each zone is watered per start time each day. You can also change the start times for each watering cycle.
- After times are entered for each controller, click “Save Schedule”.



Troubleshooting Guide

Trouble Running the Software Installer

- Temporarily disable anti-virus and anti-spyware programs such as Norton Antivirus, Trend Micro, AVG, Spybot Search & Destroy, etc. until the installation process has completed successfully. Alternatively, grant full permissions / remove restrictions through the program control settings within your anti virus / anti spyware software.
- Make sure you are allowing the installer program to run when prompted as such by Windows.

Connectivity Issues

1. Controller to PC Connectivity

- Make sure that your USB access point is plugged into your computer, or into a **powered** USB hub.
- Make sure that your controller unit is plugged in.
- Move your USB access point around, utilizing the several feet of USB cable that are included. Placing it physically closer to your controller may help, or placing it farther away from dense objects or sources of radio frequency interference may help.
- Restart your computer.

3. Software to Weather Service Connectivity

- Disable any anti-virus, anti-spyware, and firewall programs you may have, (ideally one at a time in order to isolate exactly which program is inhibiting Cyber-Rain's access to the internet) or change Cyber-Rain's internet access settings in these programs in order to allow the software to access online weather data.

Access Point Plugged in BEFORE Installing the Software

- Enter the Control Panel from the Start Menu. Then click Add or Remove Programs (in Windows XP) or the "Uninstall a Program" subcategory from the "Programs" heading (Vista).
- Uninstall the Silicon Laboratories driver**.**
- Restart your computer**.**
- Download the "USB Access Point Driver" from http://www.cyber-rain.com/downloads/
- Extract all files from the "CP210x Installer" .zip file
- Open the newly created "CP210x Installer" folder, and run the "CP210xVCPInstaller.exe" (the .exe may or may not display depending on your operating system's configuration).
- Click "Install"; a "Scanning" process begins that may take several minutes, which should be followed by an "Installation Complete" notice.

Error Messages

1. Unhandled Exception (Computers running Windows XP)

- Enter the Control Panel from the Start Menu. Then click Add or Remove Programs (in Windows XP) or the “Uninstall a Program” subcategory from the “Programs” heading (Vista).
- Look for multiple versions of “Microsoft .NET Framework”
- If you find versions other than “Microsoft .NET Framework 2.0”, (such as Microsoft .NET Framework 1.1”, uninstall them. Do not uninstall “.NET Framework 2.0”

2. Unhandled Exception (Computers running Windows Vista)

- Go to Start \ Computer \ Local Disk (usually C:\) \ Program Files
- Right-click the “Cyber-Rain” folder.
- Click “Properties” at the bottom of the right-click menu.
- Click the “Security” tab at the top of the Properties window.
- Make sure that all categories (i.e. Users, Administrators, SYSTEM) are given “Full Control” over the Cyber-Rain software.
- If any category does not have “Full Control”, highlight that category and click the “Edit” button.
- In the “Edit” window, click the box for “Full Control” under the “Allow” column.
- Click “Apply” and then click “OK”

Controller Not Recognized on New Computer or New Hard Drive

- Install the Cyber-Rain software (with the USB Access Point unplugged until the installation is complete).
- Cycle the power on your controller unit (unplug its power cable for 30 seconds, then plug it back in).
- Your new installation of the Cyber-Rain software should now be able to recognize your controller.

Software Upgrade

- Unplug your USB access point prior to the upgrade process.
- Go to www.Cyber-Rain.com/downloads and download the most recent version of software.
- The upgrade process will erase your current watering schedule. If you would like to save your current schedule, go to your local drive (usually C:\), and navigate to "C:\Program Files\Cyber-Rain\Cyber-Rain\data".
- Within this folder you will find Cyber-Rain.xml (the .xml may or may not display, depending on your operating system’s configuration).
- Copy this file (right click the file and click “Copy”) and save it someplace, such as on your desktop (right click an empty space on the desktop and click “Paste”).
- Exit the Cyber-Rain software (File\Exit from the software window, or right click the Cyber-Rain icon in the bottom right hand tray and click “Exit”).
- Enter the Control Panel from the Start Menu. Then click Add or Remove Programs (in Windows XP) or the “Uninstall a Program” subcategory from the “Programs” heading (Vista).
- Uninstall the Cyber-Rain software.
- Restart your computer
- Install the downloaded software (the USB access point should still be **UNPLUGGED**).
- Restart your computer

- Place the Cyber-Rain.xml file that you saved back in the C:\Program Files\Cyber-Rain\Cyber-Rain\data folder, replacing the existing Cyber-Rain.xml file in that directory.
- Plug in your USB access point.
- Start up your Cyber-Rain software.